STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-46694	6. SURFACE: State
7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
8. UNIT or CA AGREEMENT NAME: Beluga	
9. WELL NAME and NUMBER: Beluga State Q-16-9-17	
10. FIELD AND POOL, OR WILDCAT: Monument Butte	
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 16 9S 17E	
12. COUNTY: Duchesne	13. STATE: UTAH

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

B. TYPE OF WELL: OIL ☑ GAS ☐ OTHER _____ SINGLE ZONE ☑ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: Newfield Production Company

3. ADDRESS OF OPERATOR: Route #3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER: (435) 646-3721

4. LOCATION OF WELL (FOOTAGES) 584198 X 4431221 Y 40.029263 -110.013221
AT SURFACE: NE/SW 1987' FSL 1971' FWL
AT PROPOSED PRODUCING ZONE: 1290' FSL 1300' FWL
583995 X 4431046 Y 40.027338 -110.015635

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:
Approximately 15.5 miles southeast of Myton, Utah

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
Approx, 20' f/lse line, 1290' f/unit line	40.00 acres	20 acres
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
Approx. 1370'	5840 ~~5,723~~	Hartford Accident #4471291
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
5291' GL	1st Qrtr. 2009	(7) days from SPUD to rig release

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	8 5/8	J-55	24.0	300	Class G w/2% CaCl	155 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	5840 ~~5,723~~	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE Mandie Crozier DATE 11/20/08

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34048

Approved by the
Utah Division of
Oil, Gas and Mining

APPROVAL:

Date: 02-05-09

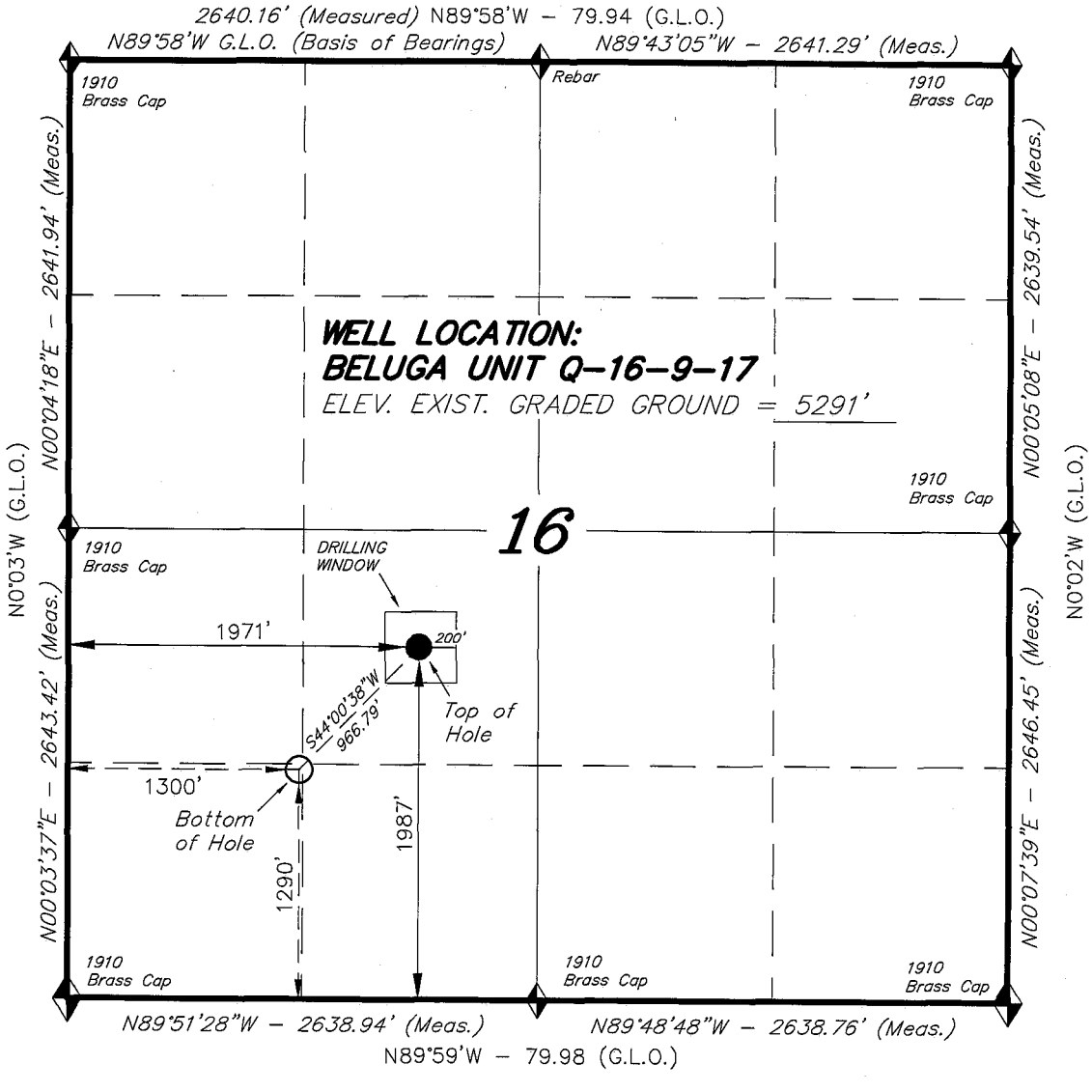
(See Instructions on Reverse Side)

By: [signature]

RECEIVED
NOV 24 2008
DIV. OF OIL, GAS & MINING

(11/2001)

T9S, R17E, S.L.B.&M.



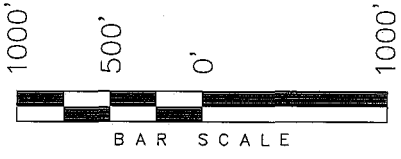
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

BELUGA UNIT Q-16-9-17
(Surface Location) NAD 83
LATITUDE = 40° 01' 44.97"
LONGITUDE = 110° 00' 50.35"

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BELUGA UNIT Q-16-9-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No.189377

STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

REGISTERED LAND SURVEYOR
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 10-14-08	SURVEYED BY: T.C.
DATE DRAWN: 10-15-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 9, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Beluga Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2008 within the Beluga Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-34148	Beluga State Q-16-9-17	Sec 16 T09S R17E 1987 FSL 1971 FWL BHL Sec 16 T09S R17E 1290 FSL 1300 FWL

We have no objections to permitting the well so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Beluga Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-9-08

NEWFIELD PRODUCTION COMPANY
BELUGA STATE Q-16-9-17
NE/SW SECTION 16, T9S, R17E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1203'
Green River	1203'
Wasatch	~~5723'~~ 5840

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1203' – ~~5723'~~ 5840 – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO_3) (mg/l)
Dissolved Bicarbonate ($NaHCO_3$) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO_4) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 290' (New)
Production Casing:5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

0 w/139.

to surf w/10%. tail 3556
4/3688

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±350 feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 290' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2009, and take approximately seven (7) days from spud to rig release.

NEWFIELD PRODUCTION COMPANY
BELUGA STATE Q-16-9-17
NE/SW SECTION 16, T9S, R17E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Beluga State Q-16-9-17 located in the NE ¼ SW ¼ Section 16, T9S, R17E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 11.4 miles ± to it's junction with an existing road to the southwest; proceed southwesterly – 1.9 miles ± to it's junction with an existing road to the southeast; proceed southeasterly – 0.3 miles ± to it's junction with an existing road to the east; proceed northeasterly – 0.5 miles ± to the beginning of the access road to the existing Mon. State 23-16-9-17B well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

The is no proposed access road for this location. The proposed well will be drilled off of the existing Mon. State 23-16-9-17B well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the existing Mon. State 23-16-9-17B well pad.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. SOURCE OF CONSTRUCTION MATERIALS

The proposed Beluga State Q-16-9-17 will be drilled off of the existing Mon. State 23-16-9-17B well pad. No additional surface disturbance will be required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times

d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Beluga State Q-16-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Beluga State Q-16-9-17 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:**

Representative

Name:	Dave Allred
Address:	Newfield Production Company
	Route 3, Box 3630
	Myton, UT 84052
Telephone:	(435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #Q-16-9-17, NE/SW Section 16, T9S, R17E, LEASE #ML-46694, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

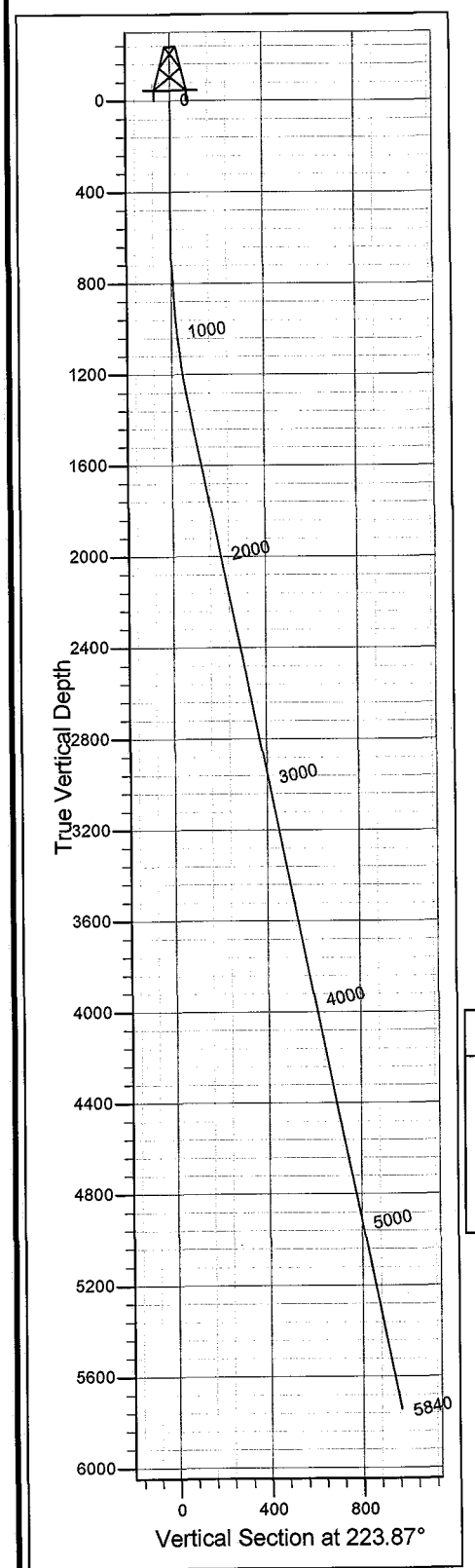
11/20/08
Date

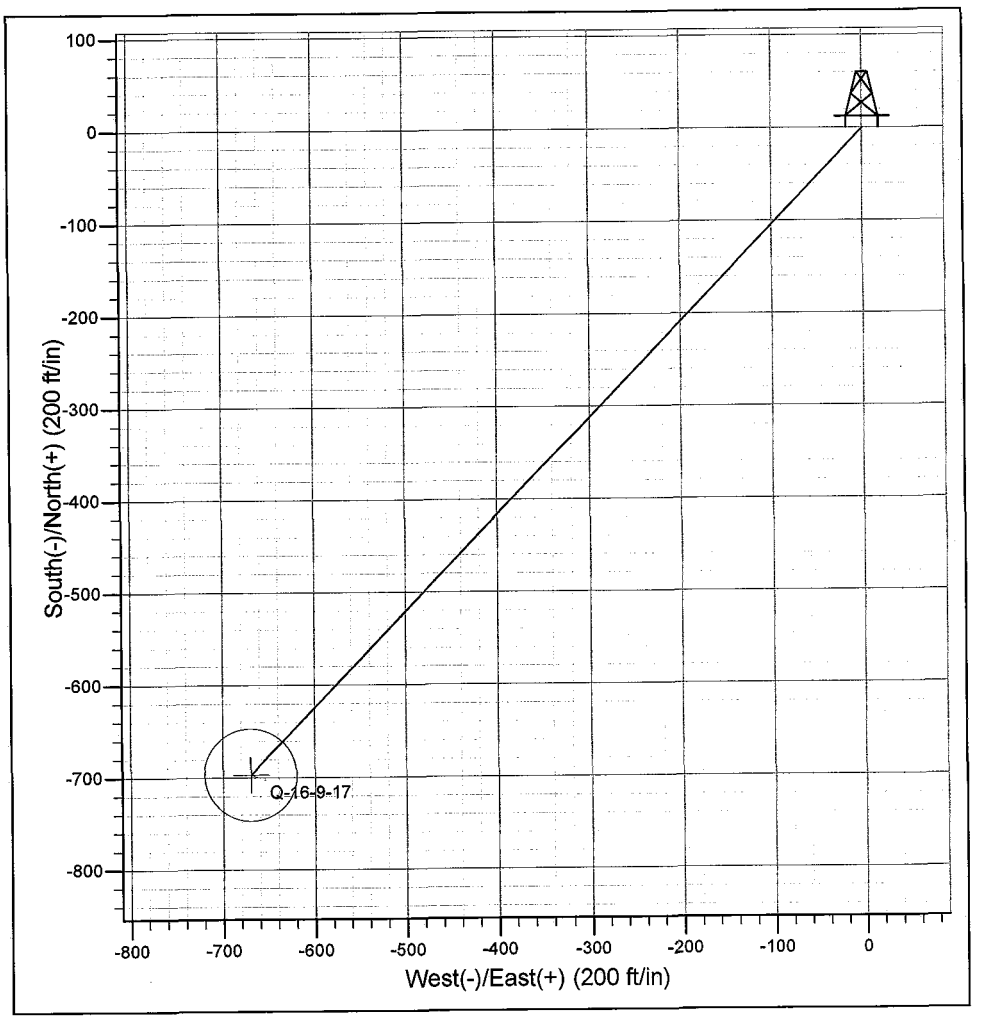
Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD
ROCKY MOUNTAINS

Newfield Production Company

Project: Monument Butte
Site: Beluga Q-16-9-17
Well: Beluga Q-16-9-17
Wellbore: Wellbore #1
Design: Design #1





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1365.2	11.48	223.87	1360.1	-55.1	-52.9	1.50	223.87	76.4	
4	5839.6	11.48	223.87	5745.0	-697.0	-670.0	0.00	0.00	966.8	Q-16-9-17

PROJECT DETAILS: Monument Butte

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
System Datum: Mean Sea Level

Azimuths to True North
Magnetic North: 11.61°

Magnetic Field
Strength: 52551.3snT
Dip Angle: 65.86°
Date: 11/19/2008
Model: IGRF200510

Created by: Hans Wychgram

Date: 11-19-2008

NEWFIELD
ROCKY MOUNTAINS

Newfield Production Company
Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Beluga Q-16-9-17
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5303.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5303.0ft (NDSI #2)
Site:	Beluga Q-16-9-17	**North Reference:**	True
Well:	Beluga Q-16-9-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Monument Butte		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Beluga Q-16-9-17				
Site Position:		**Northing:**	2,189,322.18 m	**Latitude:**	40° 1' 44.970 N
From:	Lat/Long	**Easting:**	626,824.52 m	**Longitude:**	110° 0' 50.350 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	0.95 °

Well	Beluga Q-16-9-17					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,189,322.18 m	**Latitude:**	40° 1' 44.970 N
	+E/-W	0.0 ft	**Easting:**	626,824.52 m	**Longitude:**	110° 0' 50.350 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,291.0 ft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	11/19/2008	11.61	65.86	52,551

Design	Design #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.0	0.0	0.0	223.87	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,365.2	11.48	223.87	1,360.1	-55.1	-52.9	1.50	1.50	0.00	223.87	
5,839.6	11.48	223.87	5,745.0	-697.0	-670.0	0.00	0.00	0.00	0.00	Q-16-9-17

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Beluga Q-16-9-17
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5303.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5303.0ft (NDSI #2)
Site:	Beluga Q-16-9-17	**North Reference:**	True
Well:	Beluga Q-16-9-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	223.87	700.0	-0.9	-0.9	1.3	1.50	1.50	0.00
800.0	3.00	223.87	799.9	-3.8	-3.6	5.2	1.50	1.50	0.00
900.0	4.50	223.87	899.7	-8.5	-8.2	11.8	1.50	1.50	0.00
1,000.0	6.00	223.87	999.3	-15.1	-14.5	20.9	1.50	1.50	0.00
1,100.0	7.50	223.87	1,098.6	-23.6	-22.6	32.7	1.50	1.50	0.00
1,200.0	9.00	223.87	1,197.5	-33.9	-32.6	47.0	1.50	1.50	0.00
1,300.0	10.50	223.87	1,296.1	-46.1	-44.3	64.0	1.50	1.50	0.00
1,365.2	11.48	223.87	1,360.1	-55.1	-52.9	76.4	1.50	1.50	0.00
1,400.0	11.48	223.87	1,394.2	-60.1	-57.7	83.3	0.00	0.00	0.00
1,500.0	11.48	223.87	1,492.2	-74.4	-71.5	103.2	0.00	0.00	0.00
1,600.0	11.48	223.87	1,590.2	-88.8	-85.3	123.1	0.00	0.00	0.00
1,700.0	11.48	223.87	1,688.2	-103.1	-99.1	143.0	0.00	0.00	0.00
1,800.0	11.48	223.87	1,786.2	-117.4	-112.9	162.9	0.00	0.00	0.00
1,900.0	11.48	223.87	1,884.2	-131.8	-126.7	182.8	0.00	0.00	0.00
2,000.0	11.48	223.87	1,982.2	-146.1	-140.5	202.7	0.00	0.00	0.00
2,100.0	11.48	223.87	2,080.2	-160.5	-154.3	222.6	0.00	0.00	0.00
2,200.0	11.48	223.87	2,178.2	-174.8	-168.1	242.5	0.00	0.00	0.00
2,300.0	11.48	223.87	2,276.2	-189.2	-181.9	262.4	0.00	0.00	0.00
2,400.0	11.48	223.87	2,374.2	-203.5	-195.7	282.3	0.00	0.00	0.00
2,500.0	11.48	223.87	2,472.2	-217.9	-209.4	302.2	0.00	0.00	0.00
2,600.0	11.48	223.87	2,570.2	-232.2	-223.2	322.1	0.00	0.00	0.00
2,700.0	11.48	223.87	2,668.2	-246.6	-237.0	342.0	0.00	0.00	0.00
2,800.0	11.48	223.87	2,766.2	-260.9	-250.8	361.9	0.00	0.00	0.00
2,900.0	11.48	223.87	2,864.2	-275.3	-264.6	381.8	0.00	0.00	0.00
3,000.0	11.48	223.87	2,962.2	-289.6	-278.4	401.7	0.00	0.00	0.00
3,100.0	11.48	223.87	3,060.2	-303.9	-292.2	421.6	0.00	0.00	0.00
3,200.0	11.48	223.87	3,158.2	-318.3	-306.0	441.5	0.00	0.00	0.00
3,300.0	11.48	223.87	3,256.2	-332.6	-319.8	461.4	0.00	0.00	0.00
3,400.0	11.48	223.87	3,354.2	-347.0	-333.6	481.3	0.00	0.00	0.00
3,500.0	11.48	223.87	3,452.2	-361.3	-347.4	501.2	0.00	0.00	0.00
3,600.0	11.48	223.87	3,550.2	-375.7	-361.1	521.1	0.00	0.00	0.00
3,700.0	11.48	223.87	3,648.2	-390.0	-374.9	541.0	0.00	0.00	0.00
3,800.0	11.48	223.87	3,746.2	-404.4	-388.7	560.9	0.00	0.00	0.00
3,900.0	11.48	223.87	3,844.2	-418.7	-402.5	580.8	0.00	0.00	0.00
4,000.0	11.48	223.87	3,942.2	-433.1	-416.3	600.7	0.00	0.00	0.00
4,100.0	11.48	223.87	4,040.2	-447.4	-430.1	620.6	0.00	0.00	0.00
4,200.0	11.48	223.87	4,138.2	-461.8	-443.9	640.5	0.00	0.00	0.00
4,300.0	11.48	223.87	4,236.2	-476.1	-457.7	660.4	0.00	0.00	0.00
4,400.0	11.48	223.87	4,334.2	-490.4	-471.5	680.3	0.00	0.00	0.00
4,500.0	11.48	223.87	4,432.2	-504.8	-485.3	700.2	0.00	0.00	0.00
4,600.0	11.48	223.87	4,530.2	-519.1	-499.1	720.1	0.00	0.00	0.00
4,700.0	11.48	223.87	4,628.2	-533.5	-512.8	740.0	0.00	0.00	0.00
4,800.0	11.48	223.87	4,726.2	-547.8	-526.6	759.9	0.00	0.00	0.00
4,900.0	11.48	223.87	4,824.2	-562.2	-540.4	779.8	0.00	0.00	0.00
5,000.0	11.48	223.87	4,922.2	-576.5	-554.2	799.7	0.00	0.00	0.00
5,100.0	11.48	223.87	5,020.2	-590.9	-568.0	819.6	0.00	0.00	0.00
5,200.0	11.48	223.87	5,118.2	-605.2	-581.8	839.5	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Beluga Q-16-9-17
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5303.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5303.0ft (NDSI #2)
Site:	Beluga Q-16-9-17	**North Reference:**	True
Well:	Beluga Q-16-9-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	11.48	223.87	5,216.2	-619.6	-595.6	859.4	0.00	0.00	0.00
5,400.0	11.48	223.87	5,314.2	-633.9	-609.4	879.3	0.00	0.00	0.00
5,500.0	11.48	223.87	5,412.2	-648.3	-623.2	899.2	0.00	0.00	0.00
5,600.0	11.48	223.87	5,510.2	-662.6	-637.0	919.1	0.00	0.00	0.00
5,700.0	11.48	223.87	5,608.2	-676.9	-650.8	939.0	0.00	0.00	0.00
5,800.0	11.48	223.87	5,706.2	-691.3	-664.5	958.9	0.00	0.00	0.00
5,839.6	11.48	223.87	5,745.0	-697.0	-670.0	966.8	0.00	0.00	0.00

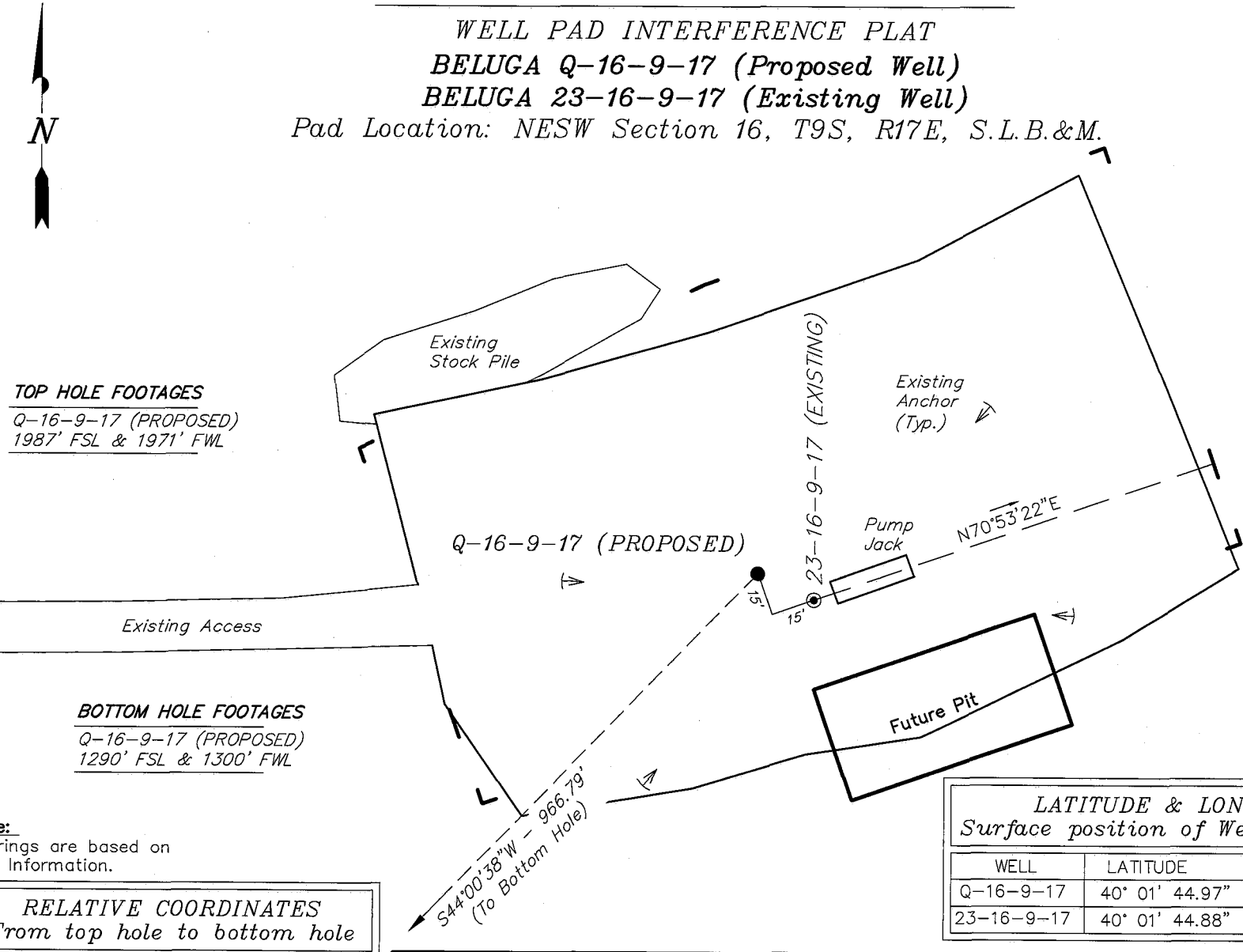
NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

BELUGA Q-16-9-17 (Proposed Well)

BELUGA 23-16-9-17 (Existing Well)

Pad Location: NESW Section 16, T9S, R17E, S.L.B.&M.



TOP HOLE FOOTAGES

Q-16-9-17 (PROPOSED)
1987' FSL & 1971' FWL

BOTTOM HOLE FOOTAGES

Q-16-9-17 (PROPOSED)
1290' FSL & 1300' FWL

Note:
Bearings are based on GLO Information.

RELATIVE COORDINATES
From top hole to bottom hole

WELL	NORTH	EAST
Q-16-9-16	-695'	-672'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
Q-16-9-17	40° 01' 44.97"	110° 00' 50.35"
23-16-9-17	40° 01' 44.88"	110° 00' 50.10"

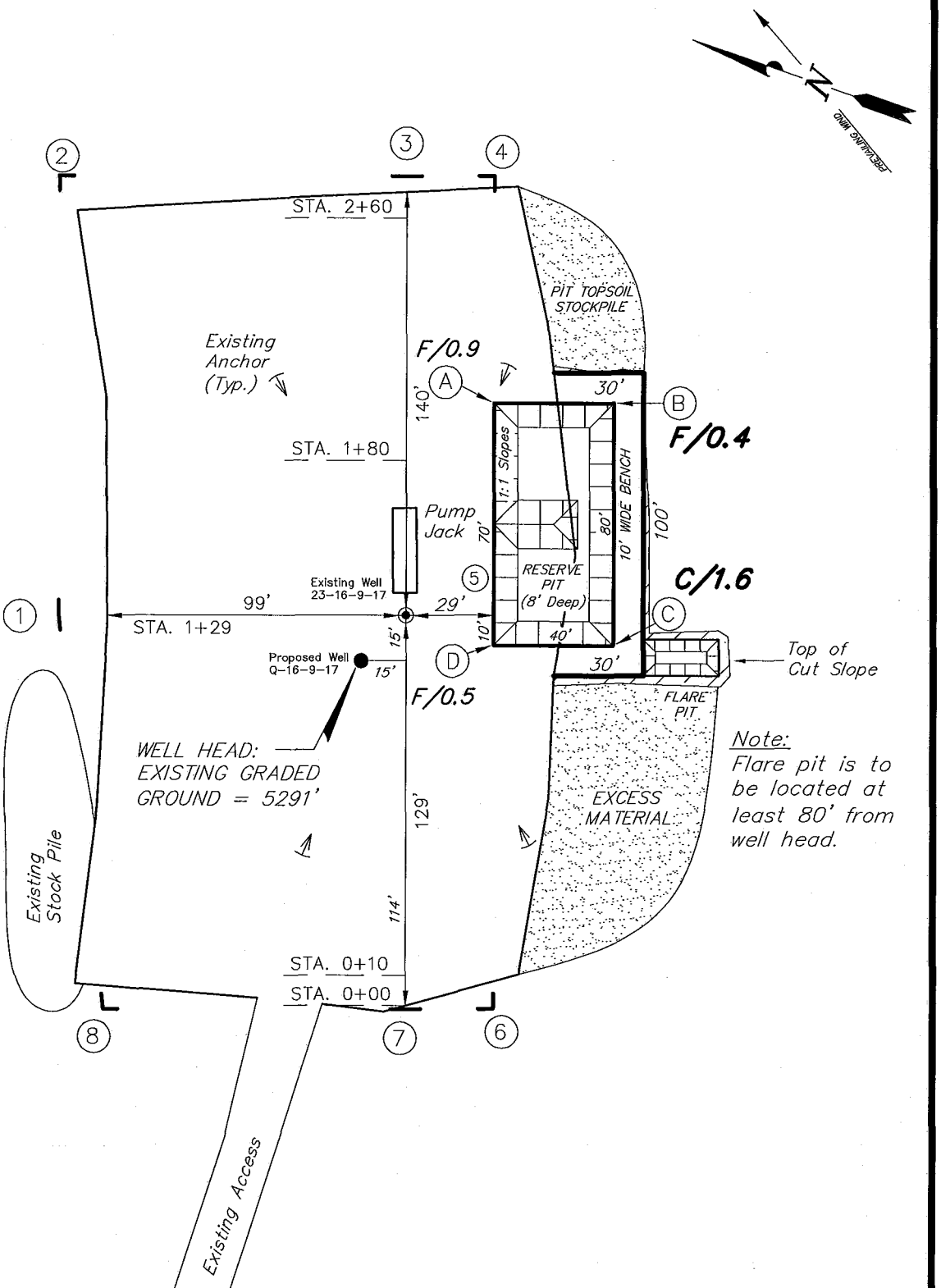
SURVEYED BY:	T.C.	DATE SURVEYED:	10-10-08
DRAWN BY:	F.T.M.	DATE DRAWN:	10-15-08
SCALE:	1" = 50'	REVISED:	

Tri State Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

BELUGA Q-16-9-17 (Proposed Well)
BELUGA 23-16-9-17 (Existing Well)

Pad Location: NESW Section 16, T9S, R17E, S.L.B.&M.



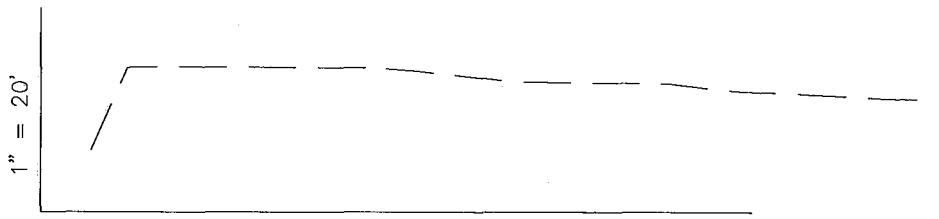
Note:
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.C.	DATE SURVEYED: 10-10-08	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-08	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	
SCALE: 1" = 50'	REVISED:		

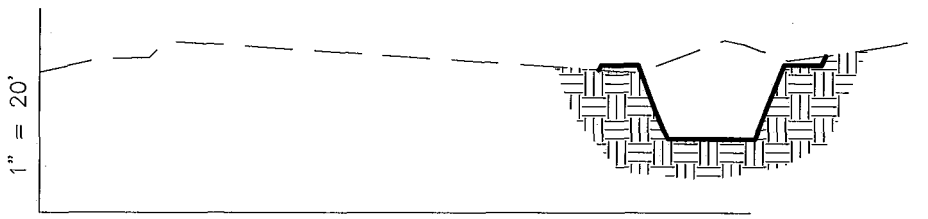
NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

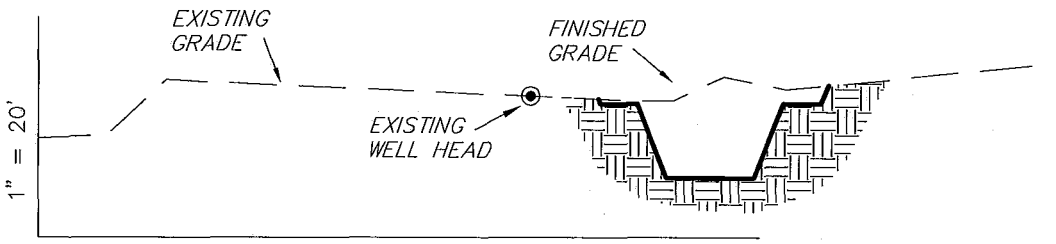
BELUGA Q-16-9-17 (Proposed Well)
BELUGA 23-16-9-17 (Existing Well)



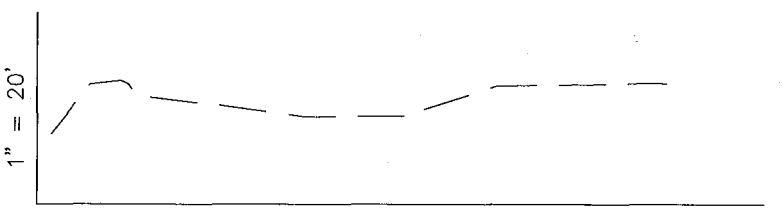
STA. 2+60



STA. 1+80



STA. 1+29



STA. 0+10

NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	310	20	Topsoil is not included in Pad Cut	290
PIT	640	0		640
TOTALS	950	20	130	930

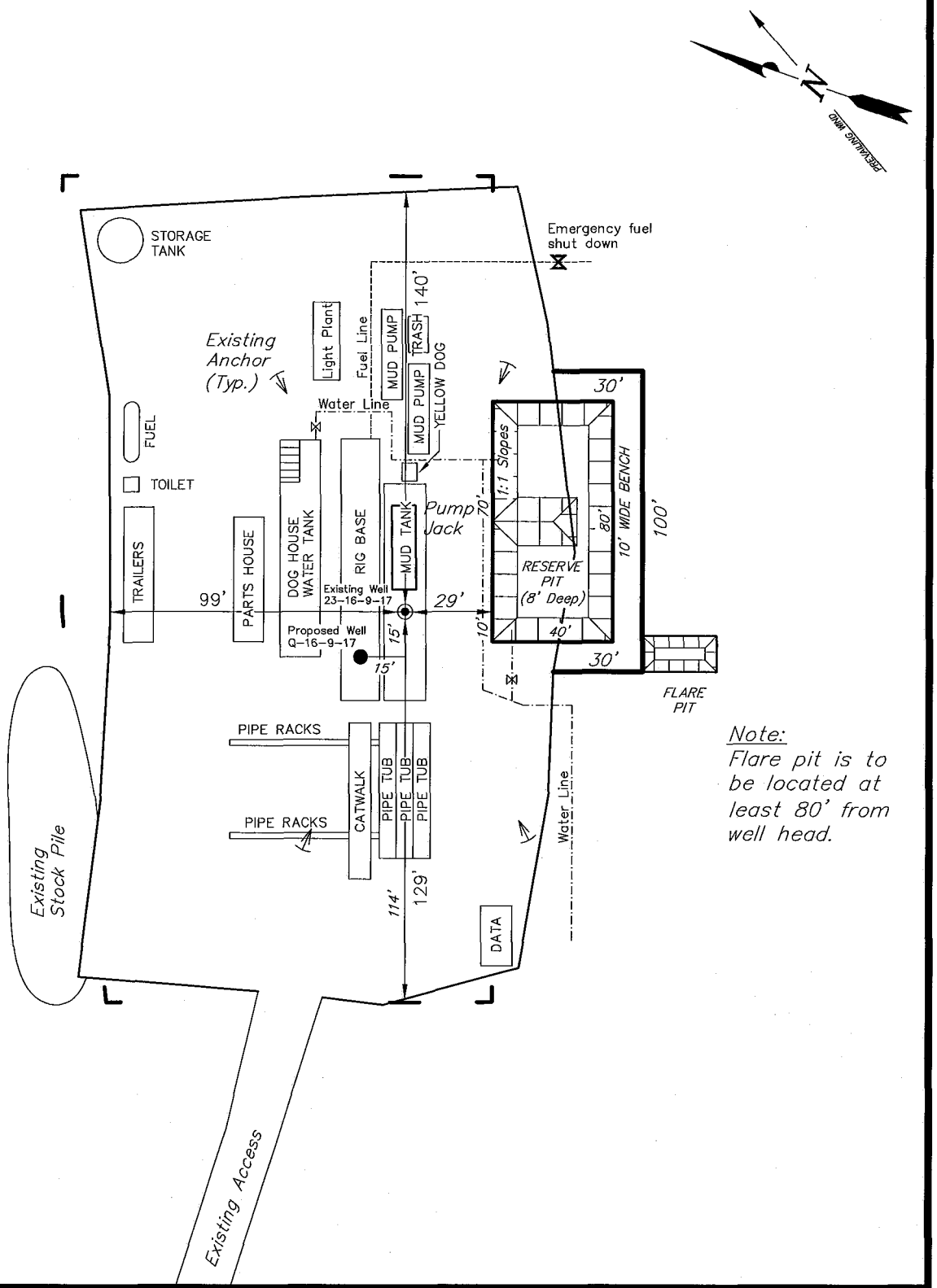
SURVEYED BY: T.C.	DATE SURVEYED:	10-10-08	
DRAWN BY: F.T.M.	DATE DRAWN:	10-15-08	
SCALE: 1" = 50'	REVISED:		

Tri State Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

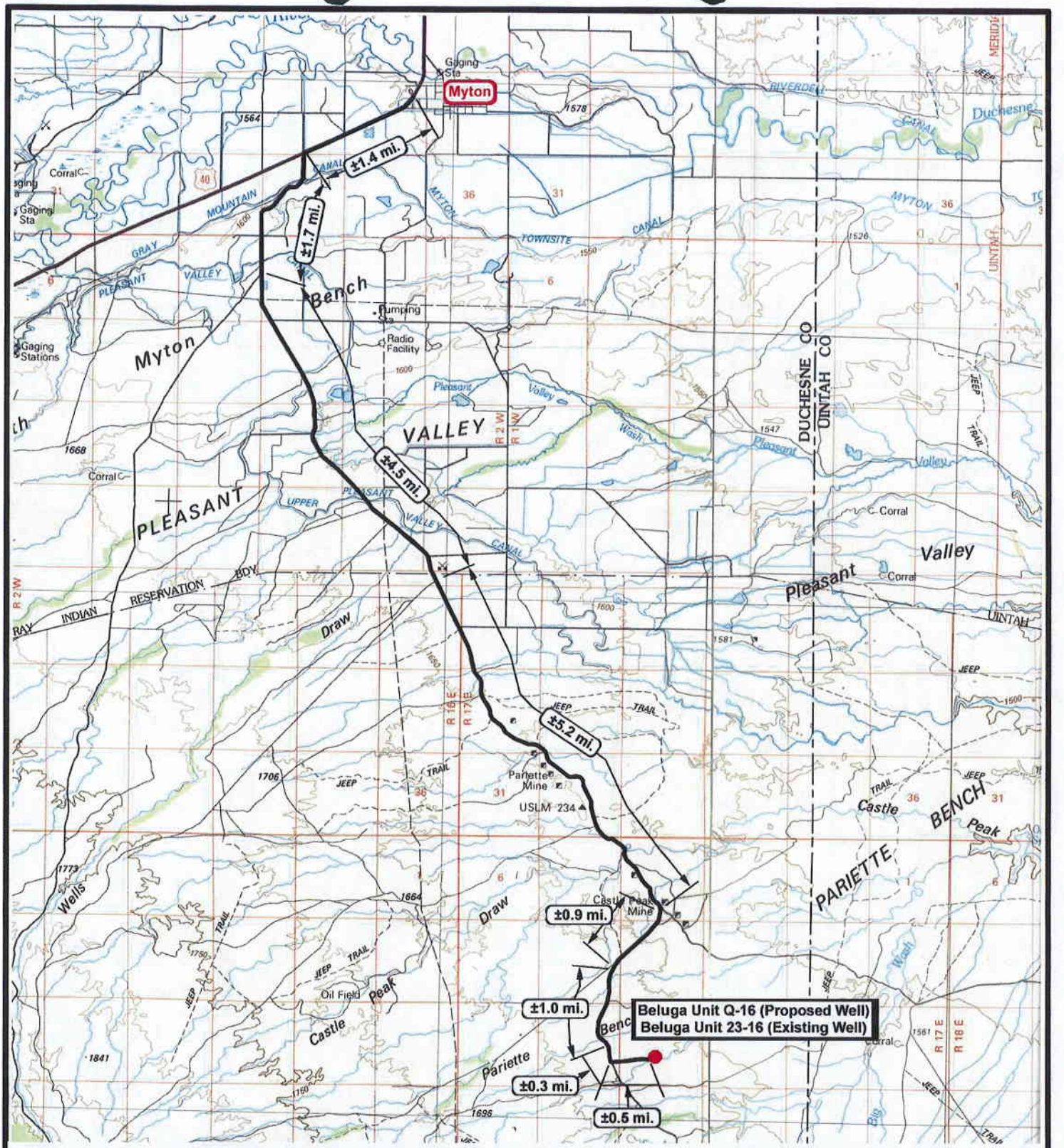
TYPICAL RIG LAYOUT

BELUGA Q-16-9-17 (Proposed Well)
BELUGA 23-16-9-17 (Existing Well)



Note:
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.C.	DATE SURVEYED:	10-10-08	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN:	10-15-08	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 50'	REVISED:		



NEWFIELD
Exploration Company

Beluga Unit Q-16-9-17 (Proposed Well)
Beluga Unit 23-16-9-17 (Existing Well)
Pad Location NESW SEC. 16, T9S, R17E, S.L.B.&M.

N

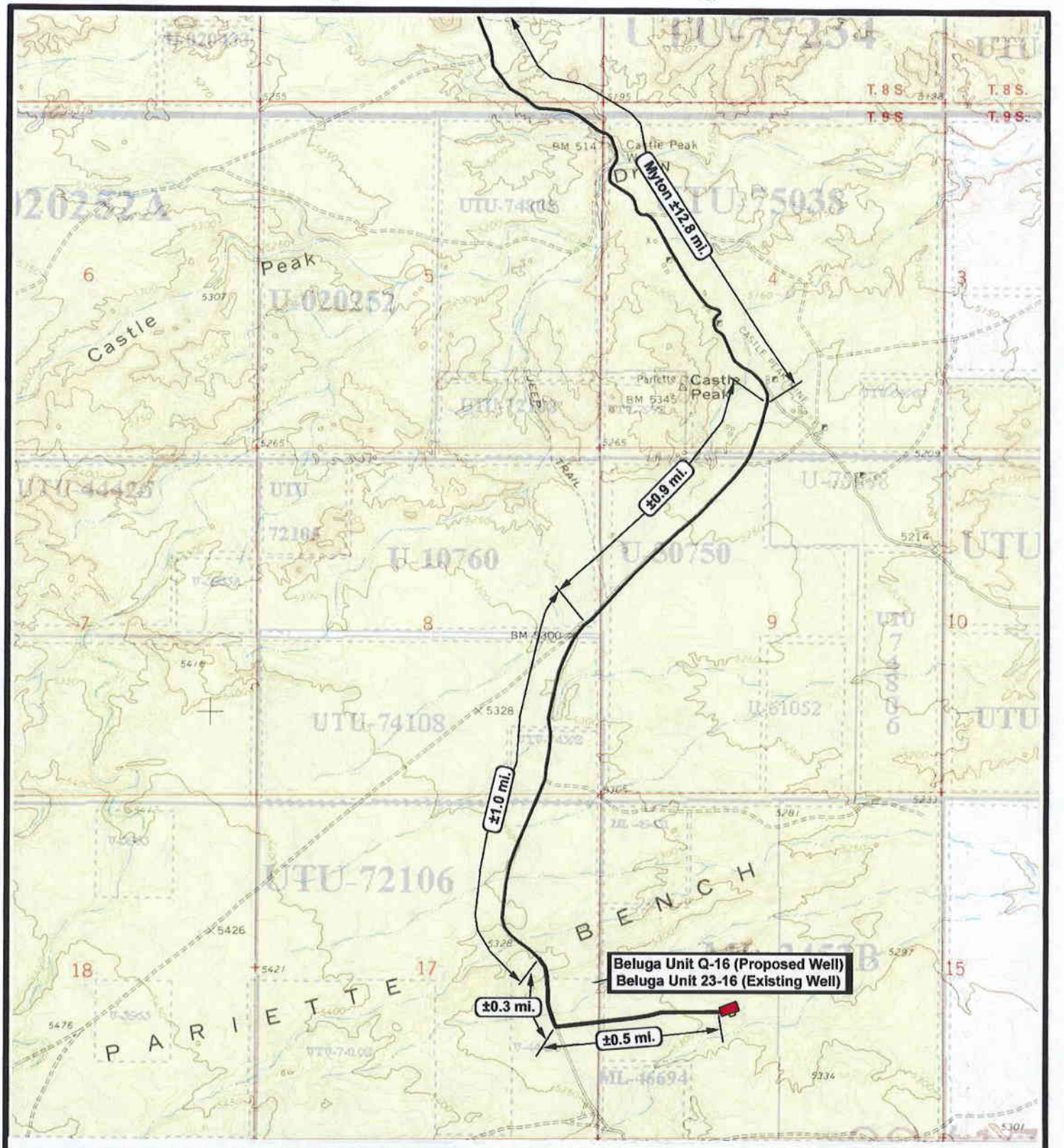
Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: JAS
DATE: 10-16-2008

Legend

Existing Road

TOPOGRAPHIC MAP
"A"



NEWFIELD
Exploration Company

Beluga Unit Q-16-9-17 (Proposed Well)
Beluga Unit 23-16-9-17 (Existing Well)
Pad Location NESW SEC. 16, T9S, R17E, S.L.B.&M.

N

Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

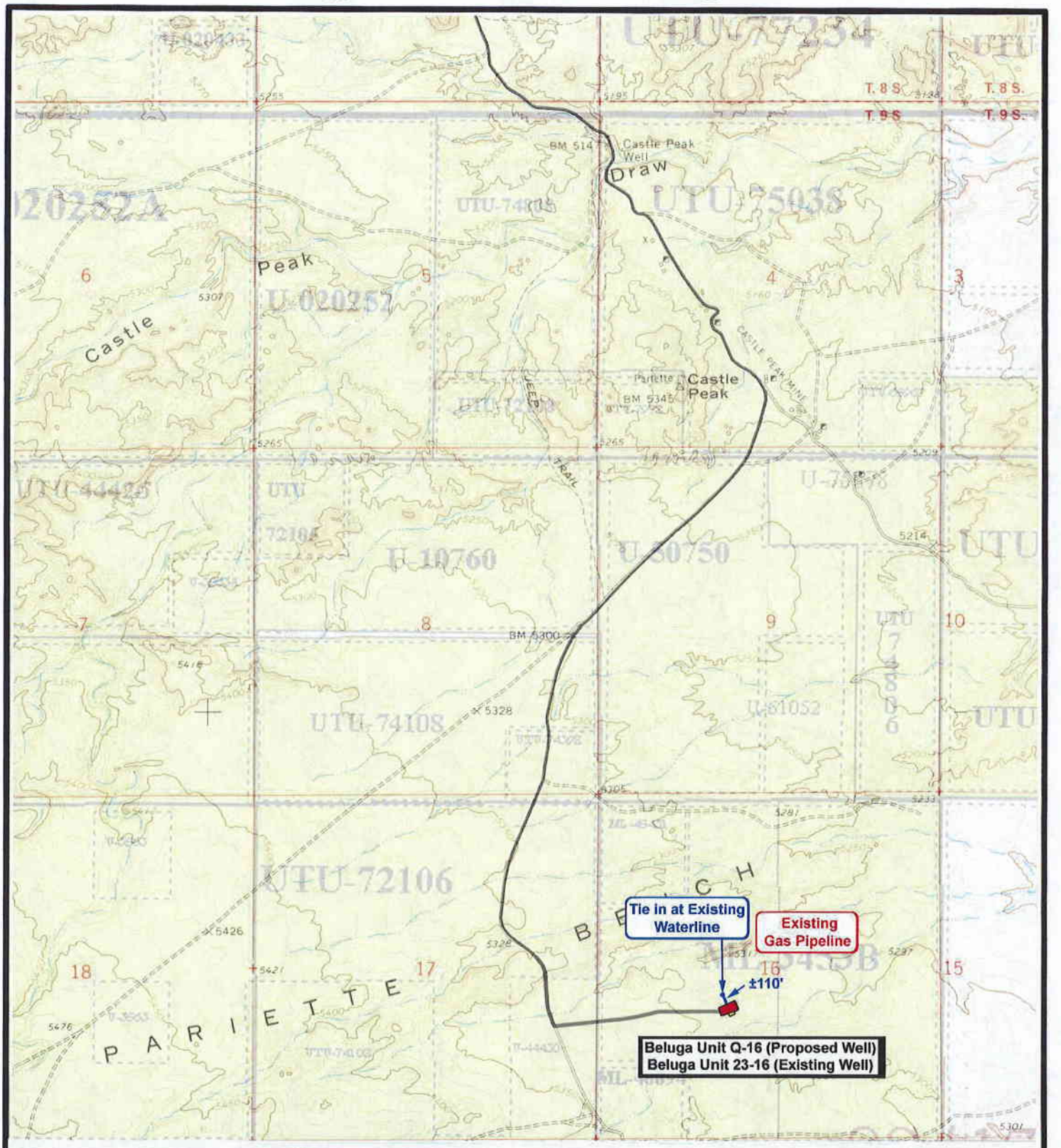
SCALE:	1" = 2000'
DRAWN BY:	JAS
DATE:	10-16-2008

Legend

Existing Road

TOPOGRAPHIC MAP

"B"



NEWFIELD
Exploration Company

Beluga Unit Q-16-9-17 (Proposed Well)
Beluga Unit 23-16-9-17 (Existing Well)
Pad Location NESW SEC. 16, T9S, R17E, S.L.B.&M.

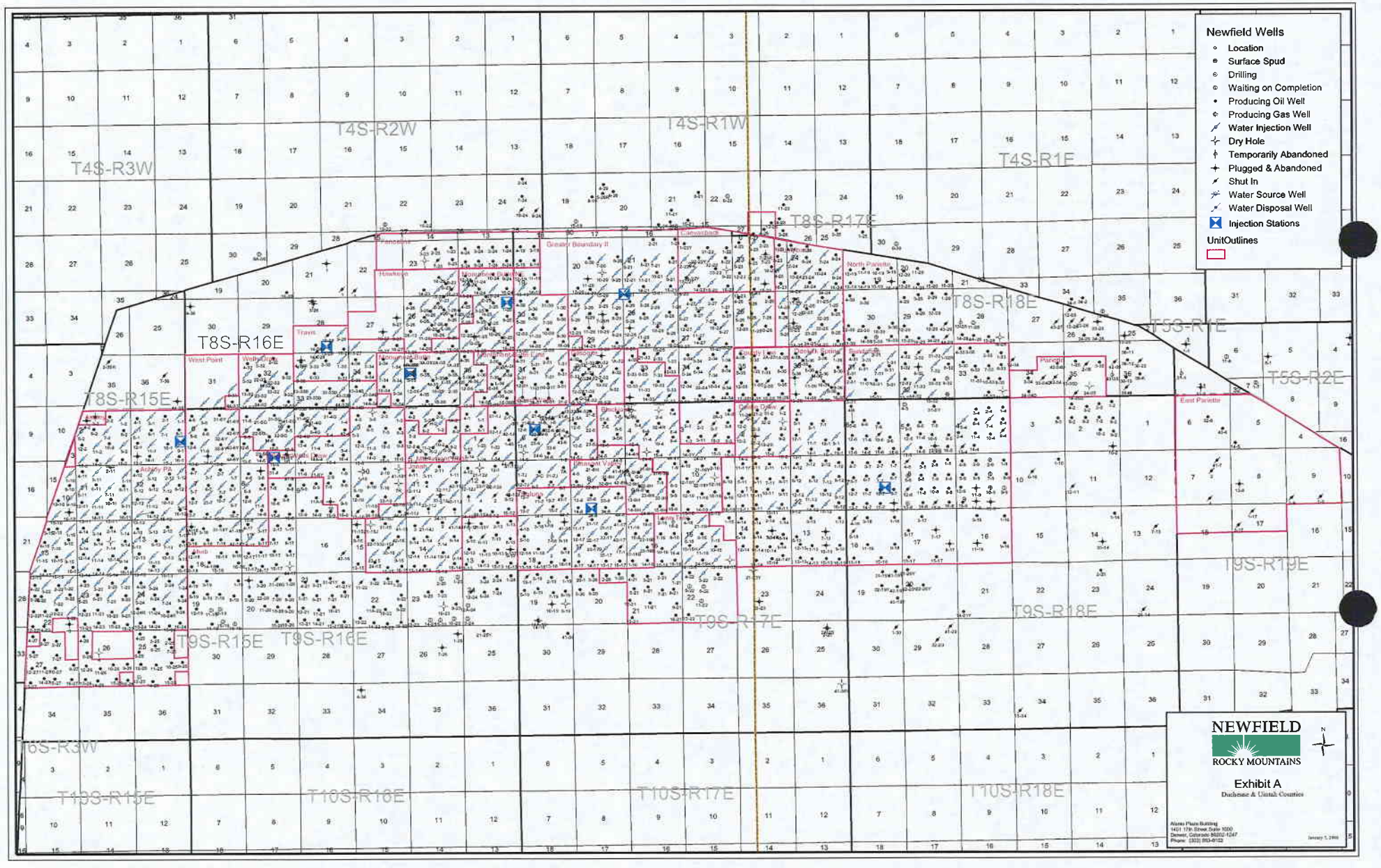
N

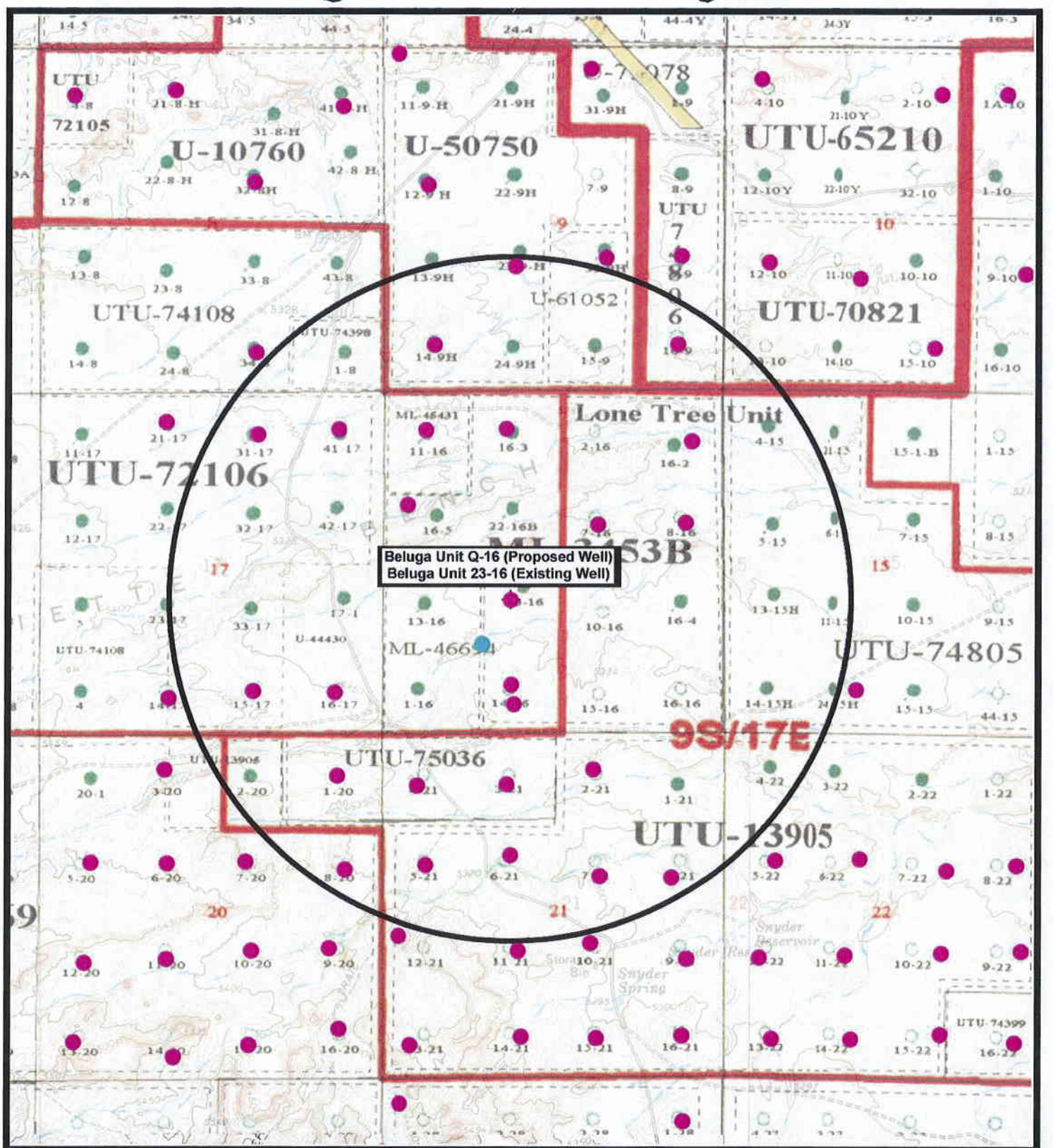
Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'
DRAWN BY: JAS
DATE: 10-16-2008

Legend
Roads

TOPOGRAPHIC MAP
"C"


Newfield Wells
Location
Surface Spud
Drilling
Waiting on Completion
Producing Oil Well
Producing Gas Well
Water Injection Well
Dry Hole
Temporarily Abandoned
Plugged & Abandoned
Shut In
Water Source Well
Water Disposal Well
Injection Stations
UnitOutlines
T4S-R2W
T4S-R1W
T4S-R3W
T4S-R1E
T8S-R17E
T8S-R16E
T8S-R18E
T8S-R15E
T5S-R1E
T5S-R2E
T9S-R15E
T9S-R16E
T9S-R17E
T9S-R18E
T9S-R19E
T10S-R15E
T10S-R16E
T10S-R17E
T10S-R18E
NEWFIELD
ROCKY MOUNTAINS
Exhibit A
Duchesne & Uintah Counties



NEWFIELD
Exploration Company

Beluga Unit Q-16-9-17 (Proposed Well)
Beluga Unit 23-16-9-17 (Existing Well)
Pad Location NESW SEC. 16, T9S, R17E, S.L.B.&M.

N

Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'
DRAWN BY: JAS
DATE: 10-16-2008

Legend

- Pad Location
- Bottom Hole Location
- One-Mile Radius

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

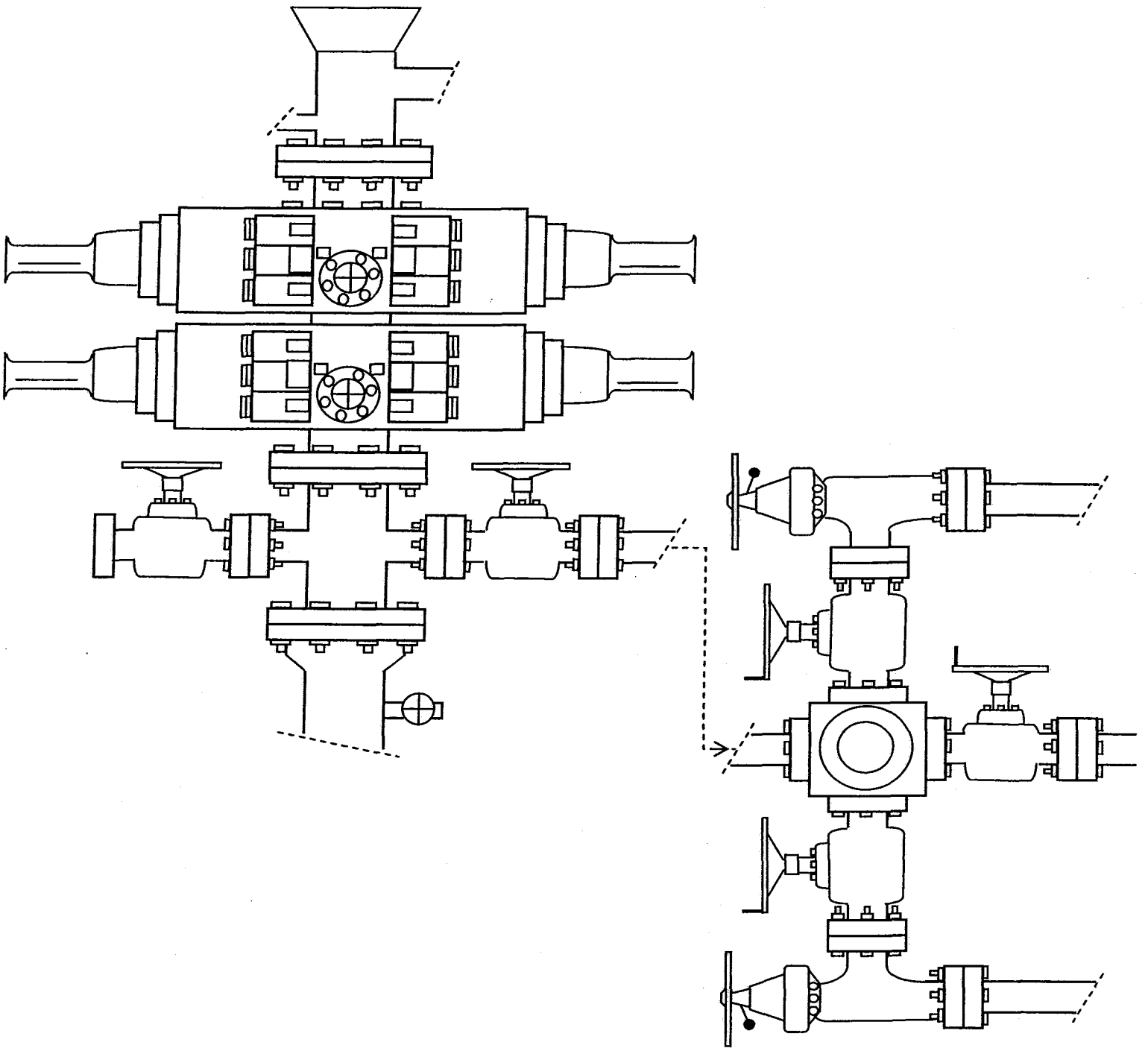


EXHIBIT C

N-32-8-16
Q-16-9-17

NEWFIELD EXPLORATION COMPANY

PALEONTOLOGICAL SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, AND PROPOSED PIPELINE ROUTES DUCHESNE COUNTY, UTAH

Area Surveys
Section 30, T 8 S, R 16 E [except NW 1/4, NW 1/4 & SE 1/4/ SE 1/4];
Section 31, T 8 S, R 16 E [except NE 14/ SE 1/4; SW 1/4, SE 1/4,SW 1/4;
SW 1/4, SE 1/4; SE 1/4/ SE 1/4 and NE 1/4, NE 1/4].

Proposed Water Injection Pipeline Surveys
22-32-8-16, 33-32-8-16, 6-36-8-16, 13-32-8-16, 34-33B-8-16, 2-2-9-16, 16-2-9-16, 14-3-9-16, 23-16-9-17, and 4-22-9-17

Water and Gas Pipeline Survey
7-33-8-16 to 11-28-8-16

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
November 29, 2008

INTRODUCTION

The present report is a continuation of one submitted to both the Newfield Exploration Company, and to the BLM of Utah on November 11, 2008. While that report was restricted to paleontological areal surveys of much or most of seven sections, this one contains just two sections; but also includes ten water pipeline tie-ins and a gas & water pipeline survey. All the above surveys, except the water and gas pipeline one, were designated for paleontological field surveys on October 24, 2008. The water and gas pipeline survey was not requested until November 21. These were sent to Wade Miller via e-mail by Mandie Crozier of the Newfield Exploration Company's Myton office. Included areas to be surveyed at that time were: Section 30, T 8 S, R 16 E [except NW 1/4, NW 1/4 & SE 1/4/ SE 1/4 - (1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16-30-8-16)]; Section 31, T 8 S, R 16 E [except NE 1/4, NE 1/4; NE 14/ SE 1/4; SE 1/4, SW 1/4; SW 1/4, SE 1/4 & SE 1/4, SE 1/4 - (2, 3, 4, 5, 6, 7, 8, 10, 11, 12 & 13-31-8-16)]. Water Injection Pipelines Survey; SE 1/4, SE 1/4, Section 2, T 9 S, R 16 E (16-2-9-16); NW 1/4, NE 1/4, Section 2, T 9 S, R 16 E (2-2-9-16); SE 1/4, NW 1/4, Section 36, T 8 S, R 16 E (6-36-8-16); NW 1/4, SE 1/4, Section 32, T 8 S, R 16 E (33-32-8-16); SE 1/4, NW 1/4, Section 32, T 8 S, R 16 E (22-32-8-16); NW 1/4, SW 1/4, Section 32, T 8 S, R 16 E (13-32-8-16); SE 1/4, SW 1/4, Section 3, T 9 S, R 16 E (14-3-9-16); NE 1/4, SW 1/4, Section 16, T 9 S, R 17 E (23-16-9-17); NW 1/4, NW 1/4, Section 22, T 9 S, R 17 E (4-22-9-17); SW 1/4, SE 1/4, Section 33, T 8 S, R 16 E (34-33B-8-16). Water and Gas Pipeline Survey; SW 1/4, NE 1/4, Section 33, T 8 S, R 16 E (7-33-8-16), NW 1/4, Section 33, T 8 S, R 16 E (3, 4, 5 & 6-33-8-16), SW 1/4, Section 28, T 8 S, R 16 E (11, 12, 13 & 14-28-8-16).

All the above areas have now received a paleontological field survey. However, there are all, or most all, of four more sections that yet need surveying (Sections 25, 26, 35 and 36, T 8 S, R 15 E). This will be done in the next two or three weeks as weather conditions permit. The field

survey for this work took place on the dates of November 17th, 18th, 21st, and 22nd, 2008. It is once more pointed out here that previous reports have recorded the paleontological procedures used in these surveys dating back to 1999. Thus, only a summary of these procedures is here included. The more detailed procedures and information relating to paleontology of the Uinta Basin can be found in reports submitted by Wade Miller during the period of 1999 through 2003. These reports are on file with the Newfield Exploration Company (including this company's predecessor, the Inland Production Company) as well as in the Salt Lake City and Vernal, Utah, Bureau of Land Management offices.

The Uinta Formation, the geologic formation that represents almost all sediment exposures in the Uinta Basin (except some of Pleistocene age, especially in Wells Draw), is regarded as one of the top few most paleontologically sensitive formations in Utah. It has provided much scientifically valuable information on past life in eastern Utah and beyond during the late Eocene period (roughly 40 to 45 million years ago). A Mammalian Age for all North America is based on the fauna that has been recovered from the Uinta Basin. While many types of diverse animals and plants have been discovered, new discoveries are certain with additional field work. Some of the specific types of plants and animals found on Newfield's oil and gas leased lands have been cited in earlier reports by the present author. The importance of protecting scientifically significant fossils, and the Federal and State laws regarding their protection, has also been given in earlier reports. The Bureau of Land Management (BLM) Paleontological Resources Use Permit number under which the present field work was done is: #UT06-003C. All the significant fossils that have been found during the paleontological field surveys, have been collected and brought to Brigham Young University (BYU). There, they have been (or are being) prepared and curated, and integrated into the paleontological collections. BLM Paleontological Report forms have also been completed and submitted to the above BLM offices regarding these fossils. BYU has been a Federally recognized repository for fossils for many years. That is, fossils discovered and collected by Federal permit can legally be stored and studied here.

PALEONTOLOGICAL FIELD SURVEY

In the present paleontological field survey work, the same paleontological procedures were followed as in all earlier ones. To wit, each of the designated quarter, quarter sections are carefully walked over looking for any fossil evidence. Specifically, this covers any area where the Uinta Formation is exposed. Notes are kept as the survey proceeds over each of the quarter, quarter sections covered. Important fossils when found are photographed *in situ*, bagged, or plaster jacketed, and marked. A GPS reading is also taken at the exact location of each. The site is then marked on a USGS Topographic map, with a field locality number given. Although the present survey covered a very widespread area, fossil finds were scarce. And the fossils that were found are not considered of significant paleontological importance. The most abundant fossils found were ichnites of various types. Since no specimens warranted, photos were not taken, nor were GPS readings made.

In situations where surveyed quarter, quarter sections are essentially the same in terms of their physical features, units of exposed Uinta Formation are basically alike, and no significant fossils are present, then two or more of these 40 acre units are combined for reporting purposes. This proved to be the case in the current paleontological field survey. It has been observed, and noted here, that exposures in Newfield's oil and gas leased lands in the western region (areas covered in the present survey) are less fossiliferous than is the case in the eastern area. In the present paleontological field survey, it was seen that only some of Newfield's proposed well pad sites in addition to proposed access roads and water and gas line routes were marked by stakes and flagging. Where there is no such marking, the entire quarter, quarter section is surveyed. Pipeline routes are surveyed at least for 50 feet on either side of the proposed line. This distance is expanded if the Uinta Formation has exposures somewhat beyond the 50 feet.

As usual, both USGS Topographic maps and Newfield's planimetric map of the roads and wells were used in the survey. The former type of maps used in the present survey were the Myton SE 7.5' and Myton SW 7.5' quadrangles published in 1964 (see appended maps for areas covered in the presently reported survey). Wade Miller performed the paleontological field survey for this report alone.

REPORT OF AREAS SURVEYED

Section 30, T 8 S, R 16 E

NE 1/4, Section 30, T 8 S, R 16 E (3, 5 & 6-30-8-16)

Only three quarter, quarter sections are reported here for this quarter section, as a plugged well is present in the NW 1/4, NW 1/4, and was therefore not designated for a survey. A metal pole marks this abandoned well. The remaining three quarter, quarter sections were surveyed on foot. Terrain of this area consists of low ridges, with the only arroyo of note running through the unsurveyed NW 1/4, NW 1/4. Soil trends from sandy to rocky. It supports a sparse to moderate vegetative cover of mostly low-growing brush, bunch grass, Compositae and cactus. While the three surveyed quarter, quarter sections have mostly a soil cover, some rock outcrops of Uinta Formation occur intermittently along the ridges. These are primarily sandstones. The only fossils seen consisted of fresh water mollusc bore and fill structures, and a few smaller unidentified invertebrate burrowings.

SW 1/4, Sec. 30, T 8 S, R 16 E (11, 12, 13 & 14-30-8-16)

A deep north - south running arroyo bisects the eastern part of the quarter section. On the upland side of this arroyo there is a gently sloping land surface on which there are isolated knolls /small hills. Soil tends to be mostly rocky, with some gravelly to sandy spots. Although the plant types are essentially the same as in the NW 1/4, brush often grows a little higher - especially along the arroyo. There are many more rock outcrops than in that quarter section. These consist of various sandstones, shales and mudstones of the Uinta Formation. Ichnites are common in places (only in the sandstones, however). Additionally, several pieces of well-weathered fossil turtle shell were

found. These fragments apparently came from underlying mudstone. These were mixed with small sandstone clasts on the surface

SE 1/4, Sec. 30, T 8 S, R 16 E (9, 10, 15 & 16-30-8-16)

A ridge and arroyo topography dominate almost the entire SE 1/4 section, with the condition of the SW 1/4, SE 1/4 showing the least relief. Soil in arroyos has a large sand component, with that on the ridge slopes and tops being primarily rocky. Vegetation varies little from that above of the SW 1/4 of Section 30. Outcrops of Uinta Formation are mostly sandstones, and are discontinuous. Largely, these are exposed on the tops and upper flanks of the ridges. Very few *in situ* rock outcrops are present within the arroyos proper. Fossils observed in this quarter section were very few. They consist only of invertebrate trace fossils in sandstone.

NE 1/4, Sec. 30, T 8 S, R 16 E (1, 2, 7 & 8-30-8-16)

Much of the northen two quarter, quarter sections of this quarter section lies on a gently sloping land surface. The southern two quarter, quarter sections have a more rugged relief of ridges and arroyos. A relatively major arroyo runs northeast through these two parcels. Soil changes from sandy and gravelly, especially in the north, to more rocky in the south. There is a sparse to moderate vegetative cover over the whole northeast quarter. Again, plant types remain similar to those of the NW 1/4 of Section 30. Essentially no Uinta Formation outcrops appear in the northern half of the NE 1/4. Limited sandstone exposures show intermittently on ridges and ridge slopes in the southern half of this quarter section. Very few ichnites, none apparently different than those in the other parts of Section 30, T 8 S, R 16 E, are present in this area. All observed trace fossils occur in sandstone.

Section 31, T 8 S, R 16 E

NW 1/4, SE 1/4, Section 31, T 8 S, R 16 E (10-31-8-16)

Only the NW 1/4, SE 1/4, was scheduled for a paleontological survey within the SE 1/4 section. The other three quarter, quarter sections currently have wells on them. An operating oil well (44-31-8-16) exists in the SE 1/4, SE 1/4. The NE 1/4 (9-31-8-16) and SW 1/4 (34-31-8-16) of the SE 1/4 each presently have a water injection well. The basic topography for the NW 1/4, SE 1/4 consists of a ridge running along the eastern two-thirds and a gentle slope on the western one-third. A north - south trending arroyo bisects the entire parcel. Soil is sandy over much of the area, but becomes more rocky along the upper ridge slopes to the top of the ridge. Plant cover in this quarter, quarter section varies from sparse to moderate in abundance, with brush (low to medium height) being the dominant type. Other plants include the typical bunch grass, Compositae and cactus. Uinta Formation sandstones show as intermittent exposures. A few mudstones are present, which mostly are covered in rock debris from overlying beds. The only fossils observed were the bore and fill features of ancient fresh-water molluscs. Additionally, some few burrows/trails of unidentified invertebrates were also seen.

NE 1/4, Section 31, T 8 S, R 16 E (2,7& 8-31-8-16)

The NE 1/4, NE 1/4 of Section 31 was previously paleontologically surveyed and reported. Ridges separated by the north - south running arroyo mentioned above for the NW 1/4, SE 1/4, make up the terrain of the NE 1/4. However, this arroyo turns northeast in the NE 1/4, NE 1/4. Soil, while very sandy in some areas, is very rocky in others. Plant types and abundances remain as reported in the NW 1/4, SE 1/4. Uinta Formation outcrops are common throughout this quarter section, being more pronounced on upper ridge slopes and on their tops. Some are also present near the base of the major arroyo. Some minor arroyos also are present and display some outcrops of this formation. Mudstones are rarely exposed (due mostly to coverage by overlying rock debris), but a variety of sandstones are present. These include flaggy sandstones. Despite an abundance of exposures of the various rock types, only a relatively few ichnites are present. These are all invertebrate markings.

NW 1/4, Section 31, T 8 S, R 16 E (3,4,5 & 6-31-8-16)

As with Section 30 to the immediate north of Section 31, the terrain is one of ridges and arroyos. The ridges are not as steep as in the NE 1/4 of Section 31, as in Section 30. This appears due to a lack of a major arroyo here. Soil again varies from sandy through gravelly to rocky. The vegetative cover shows little difference from that of Section 30, or elsewhere in Section 31. With a lack of steep ridges, few Uinta Formation outcrops show in this area. Mostly those that do are very low sandstones and mudstones. With the exception of very few mollusc bore holes, no fossils occur within this entire 1/4 section.

SW 1/4, Section 31, T 8 S, R 16 E (11,12 & 13-31-8-16)

In the SW 1/4 of Section 31 a water injection well occupies the SE 1/4 (14-31-8-16). This quarter, quarter section was not surveyed. Topography overall for the quarter section remains one of ridges and intervening arroyos. They are, however, of fairly subdued relief. Soil continues sandy to rocky, and for the most part is thin. The vegetation it supports is virtually the same as listed for adjacent quarter sections. The plants in terms of types and coverage is unchanged. Apparently due to low relief of the land surface, Uinta Formation exposures are relatively few. Those present typically continue to be near or on ridge crests. A few minor ones, though, were noted within the bottom of arroyos. A few of the typical ichnites, cited in other areas mentioned above, were seen in the sandstones of this quarter section.

Water Injection Pipelines

The following ten sites are those where Newfield proposes to have water injection pipelines brought in to existing oil wells. These are of varying lengths and usually come in from the nearest existing road. The paleontological survey for each of these covered an area at least 50 feet on either side of the proposed water pipeline. In some instances it went a little beyond the 50 feet where Uinta Formation outcrops were observed there. In this way it could be told if fossils were likely to be affected with any excavation activity for the pipelines. No stakes marking these proposed water injection pipelines were present at the time of the paleontological survey.

Nevertheless, maps provided by Newfield were sufficient to locate the areas where these lines would run.

SE 1/4, SE 1/4, Section 2, T 9 S, R 16 E (16-2-9-16)

The operating well at this site, as well as the proposed route for the water injection pipeline, is located on the edge of a ridge of moderate height. This proposed pipeline runs southeast to the well site, and would have a length of 490 feet. It juxtaposes the access road leading to the well at 16-2-9-16. The soil within which the line would run is mostly rocky. Plants supported by this soil are fairly sparse and all of low growth. Compositae comprise most of the immediate vegetation. No Uinta Formation outcrops occur in the local area. However, low piles of sandstone are present at the well pad site. These were derived from a sandstone bed just below the surface when the site was prepared for the existing well. These rocks were checked for fossils, but none were seen.

NW 1/4, NE 1/4, Section 2, T 9 S, R 16 E (2-2-9-16)

A proposed water injection line in this quarter, quarter section runs 990 feet east - west from an existing road to the operating well. This well is also located on the side of a ridge. Soil along the proposed route is thin to absent. The very low vegetation in this area is sparse. Uinta Formation sandstones occur all along the proposed water pipeline route. Fossils noted in the sandstones consist only of presumed mollusc borings. In some spots they are fairly abundant. However, these fossils are not considered to be of much paleontological significance as many more sites contain much better examples of similar borings.

SE 1/4, NW 1/4, Section 36, T 8 S, R 16 E (6-36-8-16)

Although the operating well at this site has a sign denoting the site as the NE 1/4, SW 1/4, it should be the SE 1/4, NW 1/4. The proposed water injection line here runs along a ridge from the water injection well to the west (5-36-8-16) to the well at 6-36-8-16. It would be 1,085 feet in

length. Soil again is variable. Types range from sandy to rocky. Vegetation is sparse and very low-growing, with brush being scarce. Uinta Formation sandstones and mudstones commonly occur along the proposed route. Some well-weathered fossil turtle shell fragments were found in the mudstones, and trace fossils are fairly common in sandstones. In spots the boring and fill structures attributed to ancient molluscs are abundant. Other unidentified fossil invertebrate markings were seen as well in these sandstones.

NW 1/4, SE 1/4, Section 32, T 8 S, R 16 E (33-32-8-16)

The operating well at this site lies on a moderately undulating terrain. A proposed 500 foot water injection line runs to this site from a nearby road. Sandy to rocky soil covers most of the length of this line. It supports a relatively sparse plant cover of low-growth vegetation. Uinta Formation rock outcrops are few at the immediate site. These consist of low mudstone units with some included sandstone lenses. Only a few mollusc boring and fill features were noted in the sandstone lenses.

SE 1/4, NW 1/4, Section 32, T 8 S, R 16 E (22-32-8-16)

A water injection pipeline has been proposed for this well site (presently non-operating). It would run 715 feet from an existing road on the west to the well site. This site and the access road leading to it are located in a well-defined, but shallow arroyo. The proposed pipeline route transects a sandy to rocky soil, which again exhibits a fairly sparse, low-growing plant cover. Some low sandstone outcrops of Uinta Formation also occur along the route. Only a few trace fossils, of types indicated above, are present.

NW 1/4, SW 1/4, Section 32, T 8 S, R 16 E (13-32-8-16)

This particular operating well is located on a site atop a low ridge. 830 feet of proposed water injection pipeline comes from an existing north - south road to the present oil well. A sandy to

rocky soil once again is the prevalent type. Plant growth is also sparse to moderate in abundance. Some brush types grow to medium height. Additionally, bunch grass, Compositae and small patches of cactus help comprise the common plants. The only exposures of Uinta Formation are found on a ridge that comes close to the proposed water pipeline, but it does not cross it. This ridge shows intercalated beds of sandstone, shale and mudstone. Only a few invertebrate trace fossils in sandstones were all that were noted.

SE 1/4, SW 1/4, Section 3, T 9 S, R 16 E (14-3-9-16)

The well at this site rests upon a terrain of low relief. A short proposed water injection line leads just 130 feet from an existing road to the well. Actually this road coalesces with the entrance to the well site. Therefore, any soil or vegetation is negligible. No Uinta Formation beds can be seen here. No fossils exist in the immediate area.

NE 1/4, SW 1/4, Section 16, T 9 S, R 17 E (23-16-9-17)

The operating well at this site is situated on gently sloping land. The short proposed water pipeline here leads from an existing water line 110 feet to the north. Soil is sandy to rocky. Vegetation is all low-growing, and of types common to the area - and listed above. Since no Uinta Formation outcrops are present in the immediate area, there were no fossils expected - or seen.

NW 1/4, NW 1/4, Section 22, T 9 S, R 17 E (4-22-9-17)

The operating well at this site lies on a flat at the base of a low ridge. The 1,070 feet of proposed water injection pipeline to the well leads in from an existing water line to the northwest. This proposed route follows a newly cut road to the well. Soil is mostly sandy, but rocky in places. Vegetation is sparse - as throughout most of the area - and basically all low-growing. The ridge along which the proposed water line would run contains much exposed Uinta Formation

sandstones and mudstones. While only mollusc boring and fill structures were seen, they were very abundant, to the point of heavy bioturbation in places.

SW 1/4, SE 1/4, Section 33, T 8 S, R 16 E (34-33B-8-16)

This particular site currently has a water injection well. The well is located on a relatively flat-topped ridge, and near its edge. Adjacent to the north, the land slopes steeply into an arroyo. The soil cover on the ridge grades from gravelly to rocky. Vegetation is sparse throughout the area, and of low growth. Much of this is low-lying brush. Dipping into the arroyo, units of Uinta Formation sandstone and mudstone are well exposed. These are interbedded. The sandstones have poorly preserved invertebrate trace fossils, including the mollusc borings and fill structures. Also found down the embankment from the flat well site were a couple of well-weathered fossil turtle shell fragments.

Water and Gas Pipeline Survey

SW 1/4, NE 1/4, Section 33, T 8 S, R 16 E (7-33-8-16)

A requested paleontological survey for a proposed water and gas pipeline route begins at this quarter, quarter section. The proposed lines run west, then north, until they reach an area where a previous survey had already covered the remainder of the proposed lines. Within the SW 1/4, NE 1/4 of Section 33, the proposed water and gas pipelines tie into existing ones. The land is basically flat in this area. It continues with a sandy to rocky soil and low, sparse vegetation. Types are all as noted above. There are no outcrops of Uinta Formation along this proposed line for 50 feet on either side. A few large sandstone clasts do, however, indicate that Uinta Formation rocks are close to the surface.

NW 1/4, Section 33, T 8 S, R 16 E (3,4,5 & 6-33-8-16)

In this quarter section the proposed water and gas pipelines run north along the boundaries of 5 & 6-33-8-16, and 3 & 4-33-8-16. The southern part of this parcel (just west of the well site at 6-33-8-16) includes a small ridge that exposes Uinta Formation sandstone and mudstone to a height of about 45 feet. The proposed pipeline route runs along the base of this ridge. Soil and vegetation continue as above, with the exception of some higher brush. A few invertebrate trace fossils, of types already described, were found in the sandstone. In the northern part of the NW 1/4, only very low and limited sandstones can be seen. There is no evidence of fossils in these.

SW 1/4, Section 28, T 8 S, R 16 E (11,12,13 & 14-28-8-16)

As the proposed pipeline route heads north into the SW 1/4 of Section 28, it continues to encounter soil and vegetation conditions that are very similar to those given above for almost all sections. In walking out the staked route here, a number of low outcrops of Uinta sandstones intermittently cross it. Additionally, some very low mudstone exposures were also seen. These were all examined. A few trace fossils in sandstones were the only type encountered.

RESULTS OF PALEONTOLOGICAL SURVEY

A very widespread land area was covered for this report, covering many quarter, quarter sections. Physical conditions are much the same throughout this area. Fossils were found in many areas during this extensive survey, but all were either trace fossils representing unidentified freshwater invertebrate animals, or else weathered fossil turtle shell fragments. Identifications would be difficult considering the nature of these fossils. As noted above, fossils are not nearly as common in the western part of the Newfield leased lands as in the eastern region. This is somewhat surprising as Uinta Formation strata were present in most areas. This paucity of fossils is most likely due to lesser exposures of the finer-grained sediments such as mudstones. Typically, though, sandstones and other coarse sedimentary deposits in the area have presumably destroyed potential fossil material in transit, especially the smaller organisms. Where mudstones were noted in the present areas of investigation, they were largely covered on slopes by rock debris of

eroding overlying sandstones, which is the dominant rock type of record. Since there were some fairly large animals living at the time of sediment deposition (e.g., brontotheres, large turtles, crocodilians, etc.), this cannot be the only reason for a scarcity of fossils in the western part of the Basin. Environmental conditions at the time (late Eocene) undoubtedly were a factor. It will take further research to help solve the dilemma of so few fossils here.

RECOMMENDED MITIGATION

Fossils were found in most areas surveyed for the present report. However, none are considered of significant scientific value. It is for this reason that it is thought that there is no paleontological reason why the Newfield Exploration Company cannot proceed with developing all the quarter, quarter sections designated in this report as they have planned. As usual, though, if vertebrate fossils or reasonably complete plant fossils are uncovered during any excavation activity, this needs to be reported to a qualified paleontologist and/or to the Bureau of Land Management Vernal office immediately.

Wade E. Miller

Wade E. Miller
November 29, 2008

Q-16-9-17

CULTURAL RESOURCE INVENTORY OF NEWFIELD EXPLORATION'S PROPOSED BELUGA UNIT 23-16-9-17 AND LONE TREE UNIT 4-22-9-17 PIPELINES, DUCHESNE COUNTY, UTAH (T 9S, R 17E, SECTIONS 15, 16, 21, AND 22)

By:

Hannah Russell

Prepared For:

Bureau of Land Management
Vernal Field Office
and
State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Newfield Exploration Company
Route 3, Box 3630
Myton, UT 84052

Prepared By:

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MOAC Report No. 08-306

November 24, 2008

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-08-MQ-1130bs

INTRODUCTION

In November 2008, a cultural resource inventory was conducted by Montgomery Archaeological Consultants. Inc (MOAC) of Newfield Exploration's proposed Beluga Unit 23-16-9-17 and Lone Tree Unit 4-22-9-17 pipelines. The project area is located on Pariette Bench north of Snyder Reservoir in Duchesne County, Utah. The inventory was implemented at the request of Ms. Mandie Crozier, Newfield Exploration, Myton, Utah. The project area occurs on lands administered by the Bureau of Land Management (BLM) Vernal Field Office, and State of Utah School and Institutional Trust Lands Administration (SITLA) property.

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area. This project was carried out in compliance with Federal and State legislation including the Antiquities Act of 1906, the National Historic Preservation Act (NHPA) of 1966, National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was conducted by Keith Montgomery (Principal Investigator) on November 6, 2008 under the auspices of U.S.D.I (FLPMA) Permit No. 08-UT-60122 and State of Utah Antiquities Project (Survey) No. U-08-MQ-1130b,s issued to Montgomery Archaeological Consultants, Inc., Moab, Utah.

A file search for previous projects and documented cultural resources was conducted by Keith Montgomery at the BLM Vernal Field Office on November 5, 2008. This consultation indicated a number of previous inventories have been conducted by MOAC in and around the current project area for Newfield Exploration. In 2008, MOAC inventoried the Lone Tree 16-2T-0-17 40 acre parcel (Hora 2008a). In the same year proposed Lone Tree C-22-9-17 waterline was inspected (Hora 2008b). Also in 2008, the Beluga 14-16T-9-17 pipeline was surveyed (Stavish 2008a). During the same year, a high pressure gas line for the 16-5T-9-17 well was inventoried (Stavish 2008b). Finally, five Greater Boundary waterlines were inventoried by MOAC in 2008 (Stavish 2008c). None of these surveys resulted in cultural resources within the present project area.

DESCRIPTION OF PROJECT AREA

The project area is located on Pariette Bench north of Snyder Reservoir in Duchesne County, Utah (Figure 1). The legal description is Township 9S, Range 17E, Sections 15, 16, 21 and 22. A total of 7.2 acres were surveyed with 4.3 acres on lands administered by the BLM (Vernal Field Office), and 2.9 acres situated on State of Utah School and Institutional Trust Lands Administration property.

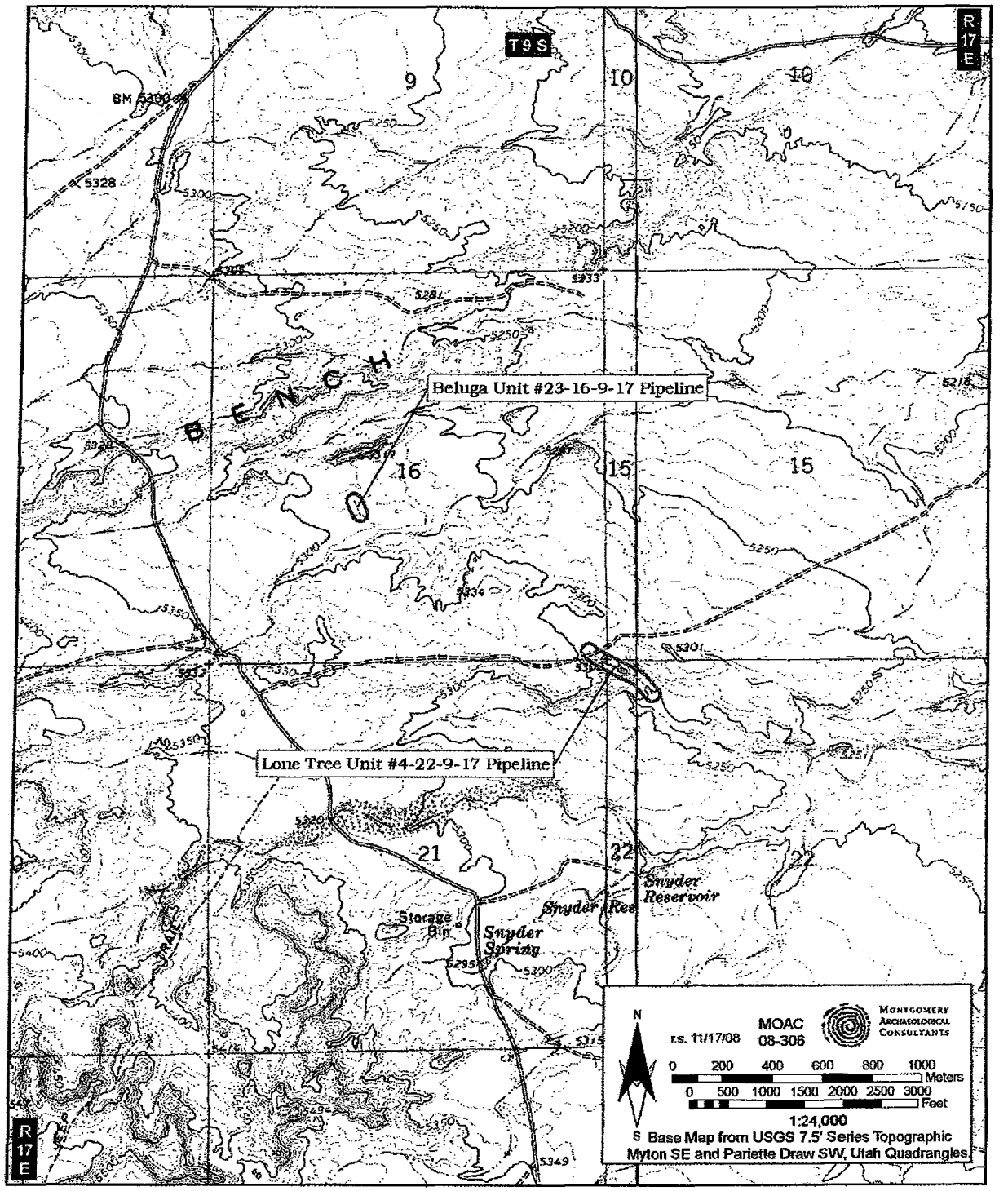


Figure 1. Inventory Area of Newfield Exploration's Proposed Beluga Unit 23-16-9-17 Pipeline and Lone Tree Unit 4-22-9-17 Pipeline.

Table 1. Newfield Exploration's Proposed Pipeline Locations.

Pipeline Designation	Legal Location	Pipeline Length	Cultural Resources
Beluga Unit # 23-16-9-17	NE/SW of Sec. 16 T9S, R17E	191 ft	None
Lone Tree Unit # 4-22-9-17	Secs. 15, 16, 21, 22 T9S, R17E	1059 ft	None

Environmental Setting

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. Topographically, this area consists of highly dissected sandstone and mudstone rock formations and broad sandy silt ridges (Stokes 1986). Recent alluvial deposits, older alluvial terrace deposits, and rock outcrops of the Upper Eocene Uinta Formation constitute the geology of the area. The Uinta Formation is seen as eroded outcrops formed by fluvial deposited stream laid interbedded sandstone and mudstone. This formation is known for its fossil vertebrate turtles, crocodilians, fish, and mammals. Elevation ranges from 5280 to 5310 ft asl. Named water sources in the area include Wells Draw and Snyder Spring. Surficial geology is characterized by tan to light brown silty loam and silty sand with a moderate content of small, angular sandstone gravels. The project area consists of sparse vegetation, dominated by a shadscale community intermixed with greasewood, prickly pear cactus, and grasses. Modern disturbances to the landscape include well locations, access roads, and pipelines.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The pipeline corridor was examined to a width of 200 ft (66 m) for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m (30 ft) apart. Ground visibility was considered good. A total of 7.2 acres was surveyed with 4.3 acres on lands administered by the BLM (Vernal Field Office) and 2.9 acres situated on SITLA property.

RESULTS AND RECOMMENDATIONS

The inventory of Newfield Exploration's proposed Beluga Unit 23-16-9-17 and Lone Tree Unit 4-22-9-17 pipelines resulted in the location of no cultural resources. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, 36 CFR 800.

REFERENCES CITED

Hora, E.

2008a Cultural Resource Inventory of Newfield Exploration's 40 Acre Parcel Lone Tree #16-2T-9-17 in Township 9S, Range 17E, Section 16) Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-08-MQ-0299s

2008b Cultural Resource Inventory of Newfield Exploration's Proposed Waterline Lone Tree C-22-9-17 (T9S, R17E, Section 22) Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-08-MQ-0200b

Stavish, P.

2008a Cultural Resource Inventory of Newfield Exploration's Proposed Waterline Beluga #14-16T-9-17 (T9S, R17E, Section 16) Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-08-MQ-0299s.

2008b Cultural Resource Inventory of Newfield Exploration's Proposed High Pressure Gas Line For Deep Gas Well 16-5T-9-17 (T9S, R17E, Sections 8, 9, 16, and 17) Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-08-MQ-0378b,s.

2008c Cultural Resource Inventory of Newfield Exploration's Five Proposed Waterlines Greater Boundary #3-11-9-17, #5-3-9-17, #9-3-9-17, Beluga Unit #16-3-9-17, and Lone Tree Unit #15-16-9-17 (T9S, R17E, Sec. 3, 9, and 16) Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-08-MQ-0849b,s.

Stokes, W. L.

1986 *Geology of Utah*. Utah Museum of Natural History, University of Utah, Salt Lake City.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/24/2008

API NO. ASSIGNED: 43-013-34148

WELL NAME: BELUGA ST Q-16-9-17

OPERATOR: NEWFIELD PRODUCTION (N2695)

PHONE NUMBER: 435-646-3721

CONTACT: MANDIE CROZIER

PROPOSED LOCATION:

NESW 16 090S 170E

SURFACE: 1987 FSL 1971 FWL

BOTTOM: 1290 FSL 1300 FWL

COUNTY: DUCHESNE

LATITUDE: 40.02926 LONGITUDE: -110.0132

UTM SURF EASTINGS: 584198 NORTHINGS: 4431221

FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	**Initials**	**Date**
Engineering	DKD	1/12/09
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-46694

SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. LPM1834)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-7478)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: BELUGA (GRRV)

___ R649-2-3. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 228-4

Eff Date: 2-4-1996

Siting: ~~460 & 920 Suspend Gen. Siting~~

✓ R649-3-11. Directional Drill

COMMENTS: Needs Presite (12-22-08)

STIPULATIONS: 1- STATEMENT OF BASIS

API Number: 4301334148

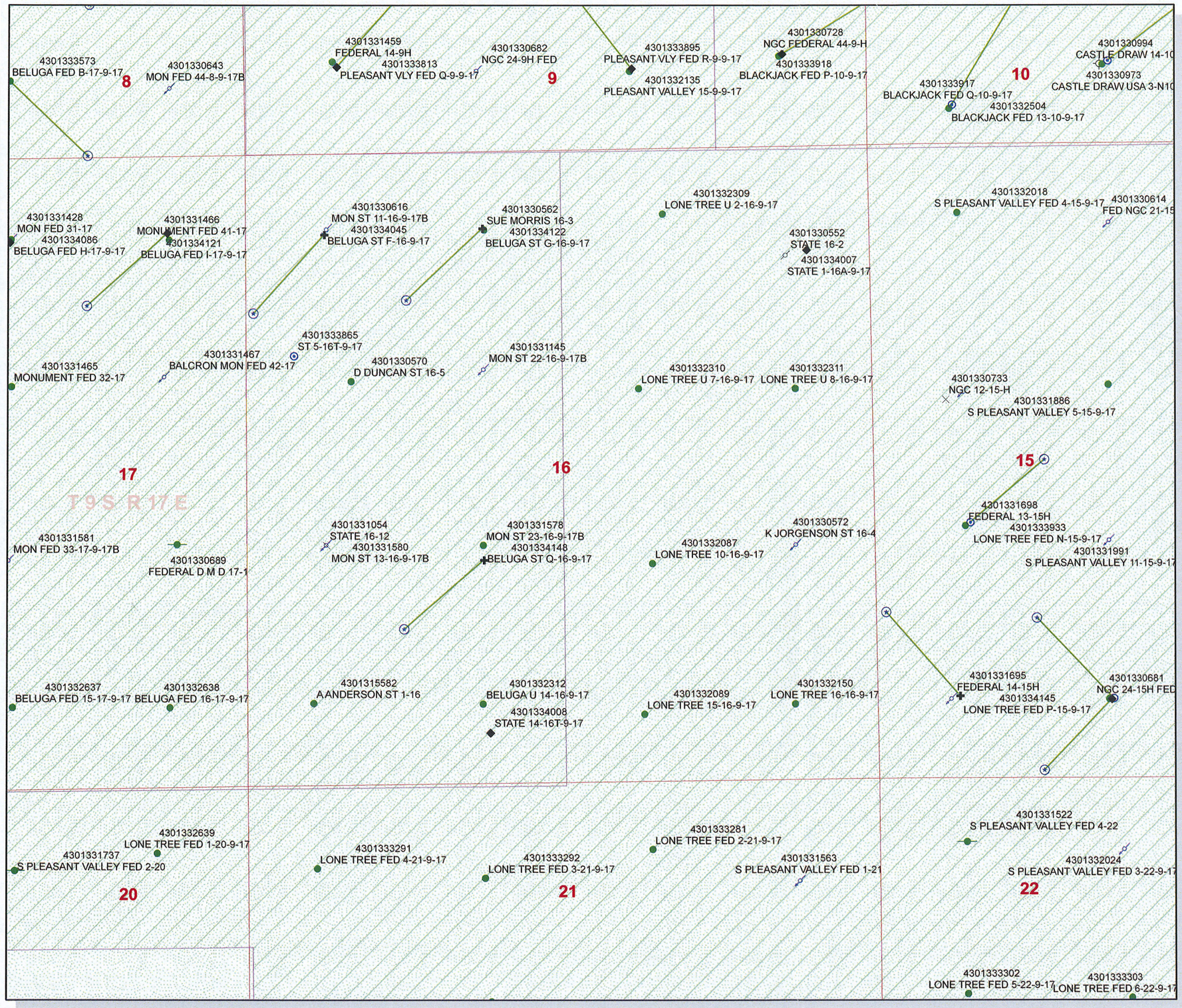
Well Name: BELUGA ST Q-16-9-17

Township 09.0 S Range 17.0 E Section 16

Meridian: SLBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

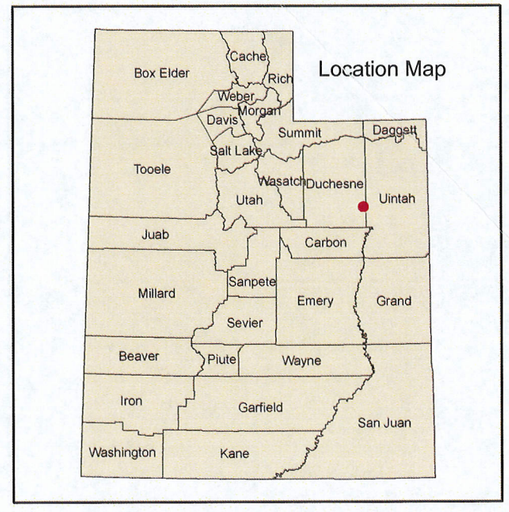


Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- ACTIVE
- COMBINED
- Sections
- Township

Wells Query Events
- <all other values>

GIS_STAT_TYPE
- <Null>
- APD
- DRL
- GI
- GS
- LA
- NEW
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WD
- WI
- WS



1,100 550 0 1,100 Feet

1:10,246

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1206	43-013-34148-00-00		OW	S	No

Operator	NEWFIELD PRODUCTION COMPANY	**Surface Owner-APD**	
Well Name	BELUGA ST Q-16-9-17	**Unit**	BELUGA (GRRV)
Field	MONUMENT BUTTE	**Type of Work**	
Location	NESW 16 9S 17E S 1987 FSL 1971 FWL	GPS Coord (UTM)	584198E 4431221N

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect useable sources of underground water.

Brad Hill	12/23/2008
APD Evaluator	**Date / Time**

Surface Statement of Basis

The proposed Beluga State Q-16-9-17 oil well is a directional well to be drilled from the existing pad of the Beluga State 23-16-9-17B that is an existing oil well. No changes to the previously disturbed area of the original pad are planned. The reserve pit will be re-dug near the original location in the southeast corner of the pad. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be suitable for drilling and operating the proposed additional well.

SITLA owns both the surface and the minerals. They were invited to the pre-site visit but did not attend.

Pat Rainbolt and Ben Williams of the Utah Division of Wildlife resources attended the evaluation. They said the additional well should have no significant impacts on wildlife and occupying an existing location rather than disturbing a new area lessened impacts.

Floyd Bartlett	12/22/2008
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name BELUGA ST Q-16-9-17
API Number 43-013-34148-0 **APD No** 1206 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 NESW **Sec** 16 **Tw** 9S **Rng** 17E 1987 FSL 1971 FWL
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Tim Eaton and Brian Foote (Newfield) and Ben Williams and Tim Rainbolt (UDWR).

Regional/Local Setting & Topography

The proposed Beluga State Q-16-9-17 oil well is a directional well to be drilled from the existing pad of the Beluga State 23-16-9-17B that is an existing oil well. No changes to the previously disturbed area of the original pad are planned. The reserve pit will be re-dug near the original location in the southeast corner of the pad. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be suitable for drilling and operating the proposed additional well.

SITLA owns both the surface and the minerals. They were invited to the pre-site visit but did not attend.

Surface Use Plan

Current Surface Use
Existing Well Pad

New Road

Miles	Well Pad		Src Const Material	Surface Formation
0	Width	Length		

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna
Existing well pad.

Soil Type and Characteristics

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run?	Paleo Potental Observed?	Cultural Survey Run?	Cultural Resources?

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	<300	20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 1 **Sensitivity Level**

Characteristics / Requirements

A reserve pit will be re-dug in the original location. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required.

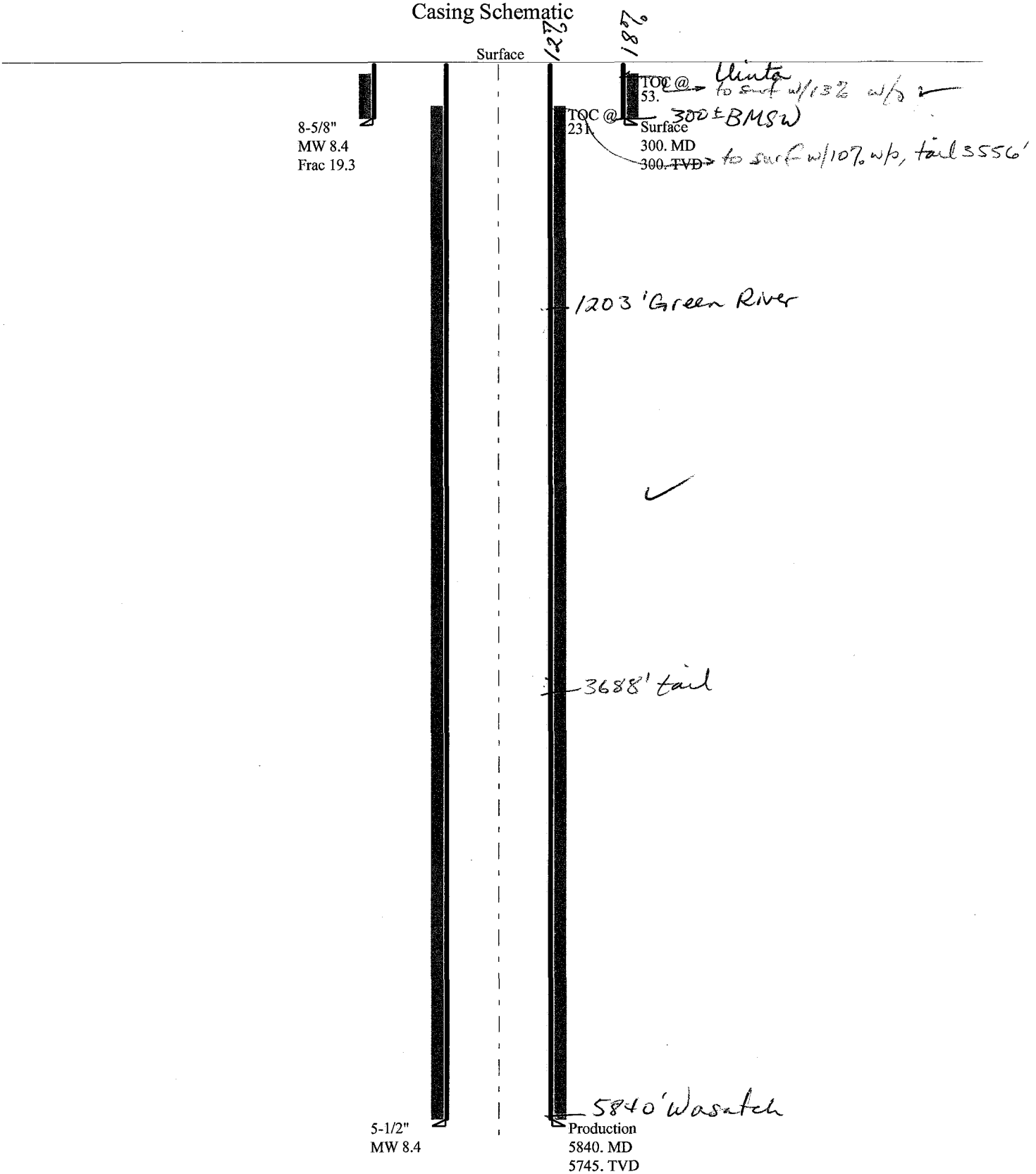
Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	12/22/2008
Evaluator	**Date / Time**

43013341480000 Beluga ST Q-16-9-17

Casing Schematic



Well name:	**43013341480000 Beluga ST Q-16-9-17**
Operator:	**Newfield Production Company**
String type:	Surface
Project ID:	43-013-34148-0000
Location:	Duchesne County

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 264 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 300 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 262 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 69 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 185 ft

Cement top: 53 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,745 ft
Next mud weight: 8.400 ppg
Next setting BHP: 2,507 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 300 ft
Injection pressure: 300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	107.3

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	131	1370	10.465	300	2950	9.83	7	244	33.89 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining

Phone: 810-538-5357

Date: January 8,2009
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 300 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43013341480000 Beluga ST Q-16-9-17**
Operator:	**Newfield Production Company**
String type:	Production
Project ID:	43-013-34148-0000
Location:	Duchesne County

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,243 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,507 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on buoyed weight.
Neutral point: 5,095 ft

Environment:

H2S considered?	No
Surface temperature:	65 °F
Bottom hole temperature:	145 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	368 ft
Cement top:	231 ft

Directional well information:

Kick-off point	600 ft
Departure at shoe:	967 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	11.48 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5840	5.5	15.50	J-55	ST&C	5745	5840	4.825	780.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2507	4040	1.611	2507	4810	1.92	78	202	2.60 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining

Phone: 810-538-5357

Date: January 8,2009
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 5745 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

BOPE REVIEW — Newfield Beluga ST Q-16-9-17 — API 43-013-34122-0000

INPUT

Well Name	Newfield Beluga ST Q-16-9-17 API 43-013-34122-0000			
	String 1	String 2		
Casing Size (")	8 5/8	5 1/2		
Setting Depth (TVD)	300	5840		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.4	8.4 ✓		
BOPE Proposed (psi)	0	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2529	8.3 ppg ✓		

Calculations	String 1	8 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	131	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	95	NO OK. Air drill
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	65	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	65	← NO OK.
Required Casing/BOPE Test Pressure		300 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		0 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	2551	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	1850	YES Air Drill
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1266	YES ✓
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	1332	← NO Reasonable - Common practice
Required Casing/BOPE Test Pressure		2000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		300 psi	*Assumes 1psi/ft frac gradient

NEWFIELD
ROCKY MOUNTAINS

December 9, 2008

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Beluga Federal Q-16-9-17
Beluga Unit
UTU-75023X
Surface Hole: T9S R17E, Section 16: NESW
1987' FSL 1971' FWL
Bottom Hole: T9S R17E, Section 16
1290' FSL 1300' FWL
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated November 20, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Beluga Unit UTU-75023X. Newfield certifies that it is the Beluga Unit Operator and all lands within 460 feet of the entire directional well bore are within the Beluga Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com . Your consideration of this matter is greatly appreciated.

Sincerely,

Roxann Eveland

Roxann Eveland
Land Associate

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-46694	6. SURFACE: State
1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐	7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
B. TYPE OF WELL: OIL ☑ GAS ☐ OTHER _____ SINGLE ZONE ☑ MULTIPLE ZONE ☐	8. UNIT or CA AGREEMENT NAME: Beluga
2. NAME OF OPERATOR: Newfield Production Company	9. WELL NAME and NUMBER: Beluga State Q-16-9-17
3. ADDRESS OF OPERATOR: Route #3 Box 3630 CITY Myton STATE UT ZIP 84052 — PHONE NUMBER: (435) 646-3721	10. FIELD AND POOL, OR WILDCAT: Monument Butte
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NE/SW 1987' FSL 1971' FWL AT PROPOSED PRODUCING ZONE: 1290' FSL 1300' FWL	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 16 9S 17E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 15.5 miles southeast of Myton, Utah	12. COUNTY: Duchesne — 13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): Approx, 20' f/lse line, 1290' f/unit line	16. NUMBER OF ACRES IN LEASE: 40.00 acres — 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 20 acres
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): Approx. 1370'	19. PROPOSED DEPTH: 5,723 — 20. BOND DESCRIPTION: Hartford Accident #4471291
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5291' GL	22. APPROXIMATE DATE WORK WILL START: 1st Qrtr. 2009 — 23. ESTIMATED DURATION: (7) days from SPUD to rig release

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	8 5/8	J-55	24.0	300	Class G w/2% CaCl	155 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	5,723	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE Mandie Crozier DATE 11/20/08

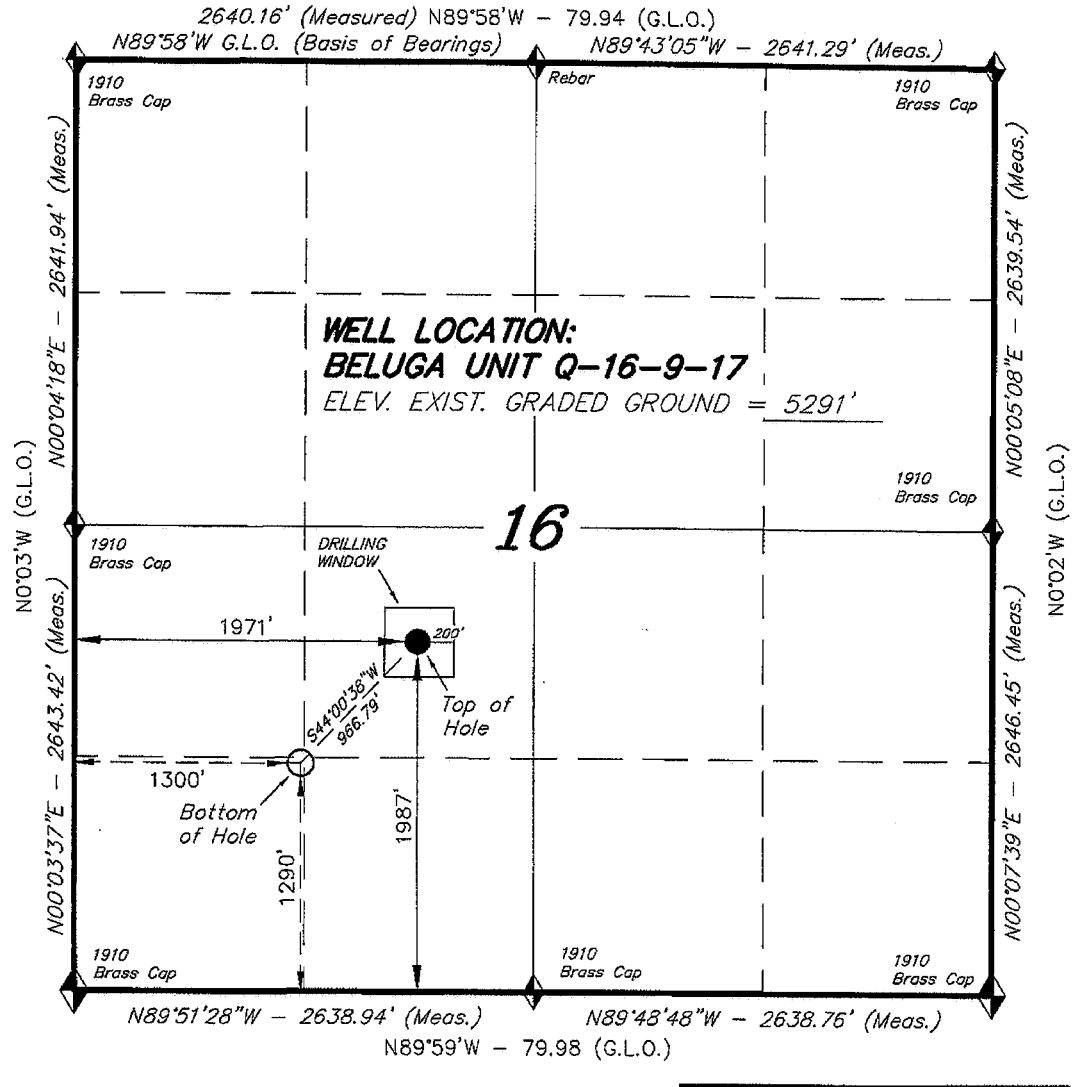
(This space for State use only)

API NUMBER ASSIGNED: _____ APPROVAL:

(11/2001) (See Instructions on Reverse Side)

RECEIVED
DEC 15 2008
DIV. OF OIL, GAS & MINING

T9S, R17E, S.L.B.&M.



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

BELUGA UNIT Q-16-9-17
(Surface Location) NAD 83
LATITUDE = 40° 01' 44.97"
LONGITUDE = 110° 00' 50.35"

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BELUGA UNIT Q-16-9-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'
BAR SCALE

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 STATE OF UTAH

STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 10-14-08	SURVEYED BY: T.C.
DATE DRAWN: 10-15-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 2/4/2009 3:12 PM
Subject: Well approvals Newfield(2) Kerr McGee(4)

CC: Garrison, LaVonne

The following wells have been approved by SITLA including arch and paleo clearance.

NBU 921-27J1S 4304750102*
NBU 921-27J4S 4304750103*
NBU 921-27P3S 4304750099*
*Paleo monitoring required on construction in the SE corner of the expansion of this pad.
NBU 1021-12A 4304739383

Beluga St G-16-9-17 4301334122
Beluga St Q-16-9-17 4301334[redacted]48

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 5, 2009

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

Re: Beluga State Q-16-9-17 Well, 1987' FSL, 1971' FWL, NE SW, Sec. 16, T. 9 South, R. 17 East, Bottom Location 1290' FSL, 1300' FWL, NE SW, Sec. 16, T. 9 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34148.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
SITLA
Bureau of Land Management, Vernal Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Newfield Production Company

Well Name & Number Beluga State Q-16-9-17

API Number: 43-013-34148

Lease: ML-46694

Location:	NE SW	**Sec.** 16	**T.** 9 South	**R.** 17 East
Bottom Location:	NE SW	**Sec.** 16	**T.** 9 South	**R.** 17 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig # 29 Submitted By Don Bastian Phone Number 435-823-6012
Well Name/Number Beluga State Q-16-9-17
Qtr/Qtr NE/SW Section 16 Township 9S Range 17E
Lease Serial Number ML-46694
API Number 43-013-34148

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 3/25/09 11:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 3/26/09 8:00 AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	11880 ✓	4301334148	BELUGA STATE Q-16-9-17	NESW	16	9S	17E	DUCHESNE	3/26/2009	4/9/09

WELL 1 COMMENTS:
GRRV BHL = NESW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	13269 ✓	4301333981	SOUTH WELLS DRAW FED U-5-9-16	NWNW	9	9S	16E	DUCHESNE	3/25/2009	4/9/09

R

GRRV BHL = Sec 5 SESE

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	17301	4301334062	MALNAR 13-20-4-1W	SWSW	20	4S	1W	DUCHESNE	3/30/2009	4/9/09

GRRV

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	13269 ✓	4301333880	SOUTH WELLS DRAW FEDERAL X-4-9-16	SESW	4	9S	16E	DUCHESNE	4/1/2009	4/9/09

GRRV BHL = SESW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 5 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)
A - 1 new entity for new well (single well only)
B - well to existing entity (group or unit well)
C - from one existing entity to another existing entity
D - well from one existing entity to a new entity
E - ther (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED
APR 01 2009
DIV. OF OIL, GAS & MINING

Signature: Jentri Park
Production Clerk
04/01/09
Date
435-646-4843

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-3453-B
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
BELUGA UNIT
8. WELL NAME and NUMBER:
BELUGA Q-16-9-17
9. API NUMBER:
4301334148
10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE:
COUNTY: DUCHESNE
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 16, T9S, R17E
STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[x] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
04/03/2009	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[x] OTHER: - Spud Notice
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 3/26/09 MIRU Ross Rig # 29.Spud well @ 11:00 AM. Drill 330' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 336.46 KB On 3/27/09 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 3 bbls cement to pit. WOC.

NAME (PLEASE PRINT) Alvin Nielsen TITLE Drilling Foreman

SIGNATURE [signature] DATE 04/03/2009

(This space for State use only)

RECEIVED
APR 08 2009
DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT **336.45**

LAST CASING **8 5/8"** SET AT **336.46**
DATUM **12**
DATUM TO CUT OFF CASING **12**
DATUM TO BRADENHEAD FLANGE **12**
TD DRILLER **330** LOGGER
HOLE SIZE **12 1/4"**

OPERATOR **Newfield Exploration Company**
WELL **BELUGA Q-16-9-17**
FIELD/PROSPECT **Monument Butte**
CONTRACTOR & RIG # **Ross rig # 29**

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		Well head			STC	A	0.95
8	8 5/8"	Surface ST&C casing (Shoe jt 39.61)	24	J-55	STC	A	324.6
1		Guide shoe			STC	A	0.9

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	326.45	8
LESS NON CSG. ITEMS	1.85	
PLUS FULL JTS. LEFT OUT	0	
TOTAL	324.6	8
TOTAL CSG. DEL. (W/O THRDS)	324.6	8
TIMING		
BEGIN RUN CSG. Spud	11:00 AM	3/26/2009
CSG. IN HOLE	12:00 PM	3/27/2009
BEGIN CIRC	8:28 AM	4/2/2009
BEGIN PUMP CMT	8:40 AM	4/2/2009
BEGIN DSPL. CMT	8:49 AM	4/2/2009
PLUG DOWN	**8:56 AM**	**4/2/2009**

TOTAL LENGTH OF STRING	326.45
LESS CUT OFF PIECE	2
PLUS DATUM TO T/CUT OFF CSG	12
CASING SET DEPTH	**336.45**

} COMPARE

GOOD CIRC THRU JOB Yes
Bbls CMT CIRC TO SURFACE 3
RECIPROCATED PIPI No

BUMPED PLUG TO 311

CEMENT USED		CEMENT COMPANY- BJ
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	159	G+2CaCl+.25#/skcello Flake 15.8 ppg & 1.17 Yeild
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Middel first, Top 2nd & third for a total of 3		

COMPANY REPRESENTATIVE **Alvin Nielsen** DATE **4/2/2009**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-3453-B

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: BELUGA UNIT

1. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: BELUGA Q-16-9-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4301334148

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER: 435.646.3721

10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 16, T9S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[x] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
04/13/2009	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[x] OTHER: - Weekly Status Report
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 4/7/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notifed of test. PU BHA and tag cement @ 290'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5,825. & a TVD of 5,699 Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 147 jt's of 5.5 J-55, 15.5# csgn. Set @ 5820.36/ KB. Cement with 242 sks cement mixed @ 11.0 ppg & 3.50 yld. Then 404 sks cement mixed @ 14.4 ppg & 1.24 yld. With 25 bbls cement returned to pit. Nipple down Bop's. Drop slips @75,000 #'s tension. Release rig 5:00 PM 4/13/09.

NAME (PLEASE PRINT) Alvin Nielsen TITLE Drilling Foreman

SIGNATURE Alvin Nielsen DATE 04/13/2009

(This space for State use only)

RECEIVED
APR 15 2009
DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT **5820.36**

LAST CASING **8 5/8"** SET AT **336.46**
DATUM **12**
DATUM TO CUT OFF CASING **12**
DATUM TO BRADENHEAD FLANGE **12**
TD DRILLER **5825** LOGG **5812**
HOLE SIZE **7 7/8"**

OPERATOR **Newfield Exploration Company**
WELL **BELUGA Q-16-9-17**
FIELD/PROSPECT **Monument Butte**
CONTRACTOR & RIG # **NDSI # 2**

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1	5 1/2"	Landing jt	15.5	J-55	LTC	A	14
147	5 1/2"	LT&C casing	15.5	J-55	LTC	A	5767.33
1	5 1/2"	Float coller				A	0.6
1	5 1/2"	LT&C casing	15.5	J-55	LTC	A	39.78
1	5 1/2"	Guide Shoe				A	0.65

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	5822.36	
LESS NON CSG. ITEMS	15.25	
PLUS FULL JTS. LEFT OUT	275.08	7
TOTAL	6082.19	7
TOTAL CSG. DEL. (W/O THRDS)	6082.19	155
TIMING		
BEGIN RUN CSG. Spud	6:30 AM	4/12/2009
CSG. IN HOLE	9:30 AM	4/12/2009
BEGIN CIRC	9:30 AM	4/12/2009
BEGIN PUMP CMT	11:22 AM	4/12/2009
BEGIN DSPL. CMT	12:03 PM	4/12/2009
PLUG DOWN	**12:25 PM**	**4/12/2009**

TOTAL LENGTH OF STRING	5822.36
LESS CUT OFF PIECE	14
PLUS DATUM TO T/CUT OFF CSG	12
CASING SET DEPTH	**5,820.36**

} COMPARE

GOOD CIRC THRU JOB Yes
Bbls CMT CIRC TO SURFACE 25
RECIPROCATED PIPI No

BUMPED PLUG TO 2100

CEMENT USED		CEMENT COMPANY- **BJ**
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	242	PLII+3%KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF 11ppg 3.50 yeild
2	404	50:50:2+3%KCL+0.5%EC-1+.25#CF+.05#SF+.05#SF+.3SMS+FP-6L 14.4 ppg
		1.24 yeild
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Middle first, top second & third. Then every third coller for a total of 20		

COMPANY REPRESENTATIVE **Alvin Nielsen** DATE **4/13/2009**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-3453-B
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: BELUGA UNIT
8. WELL NAME and NUMBER: BELUGA Q-16-9-17
9. API NUMBER: 4301334148
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: COUNTY: DUCHESNE
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: , 16, T9S, R17E STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARITLY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLAIR
☒ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of Work Completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/STOP)	☐ WATER SHUT-OFF
06/19/2009	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: - Weekly Status Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 4/29/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk

SIGNATURE DATE 06/19/2009

(This space for State use only)

RECEIVED
JUN 22 2009
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

BELUGA Q-16-9-17

2/1/2009 To 6/30/2009

4/20/2009 Day: 1 **Completion**

Rigless on 4/20/2009 - 4/22/09: Run CBL & shoot first stage. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5728' cement top @ 120'. Perforate stage #1. CP5 sds @ 5598-5604' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. 138 BWTR.
Daily Cost: $0

4/23/2009 Day: 2 **Completion**

Rigless on 4/23/2009 - (4-23-09) RU BJ Services & PSI WL. Perforate & frac 5 stage. Flowback well for 8 hrs. SIWFN w/ 1461 BWTR. - Stage #2 CP1 sands. RU PSI WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" compositeflowthrough BP & 8' perf gun(3 1/8" slick guns). Set plug @ 5420'. Perforated CP1 sands @ 5338'- 5346' (19g, 0.40HE, 38.87" pen.). 4 SPF for a total of 32 holes. RU BJ Services, 1574 psi on well. Pumped 3 bbls to breakdown well, ISIP 1542 psi, 1 min 1544 psi, 4 min 1537 psi, FG 0.65. Pumped 780 gals of 4% Techni-Hib solutions. Frac CP1 sands w/ 30,477#'s of 20/40 white sand in 408 bbls of Lightning 17# fluid. Ave treating pressure 2252 psi @ ave rate of26.9 BPM. ISDP 2103 psi, 5 min 1761 psi, 10 min 1711 psi, 15 min 1663 psi. Leave pressure on well. - Stage #3 B2 sands. RU PSI WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flowthrough BP, 4' & 8' perf gun(3 1/8" slick guns). Set plug @ 4870'. Perforated B2 sands @ 4771- 75', 4743- 51' (19g, 0.40HE, 38.87" pen.). 4 SPF for a total of 48 holes. RU BJ Services, 1428 psi on well. Pumped 1.3 bbls to breakdown well, ISDP 1405 psi, 1 min 1388 psi, 4 min 1381 psi, FG .73. Pumped 780 gals of 4% Techni-Hib solutions. Frac B2 sands w/ 70,580#'s of 20/40 white sand in 574 bbls of Lightning 17# fluid. Ave treating pressure 1974 psi @ ave rate of 25.3 BPM. ISDP 1991 psi, 5 min 1845 psi, 10 min 1774 psi, 15 min 1737 psi. Leave pressure on well. - (4-23-09) Stage #1 CP5 sands. MIRU BJ Services, 140 psi on well. Pumped 5 bbls to breakdown well, ISIP 1207 psi,1 min 927 psi, 4 min 746, FG 0.65. Pumped 780 gals of 4% Techni-Hib solutions. Frac CP5 sands w/ 20,317#'s of 20/40 white sand in 340.6 bbls of Lightning 17# fluid. Ave treating pressure 2759 psi @ ave rate of 26.7 BPM. ISDP 2054 psi, 5 min 1851 psi, 10 min 1714 psi, 15 min 1661 psi. Leave pressure on well. - Stage #4 B.5 sands. RU PSI WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flowthrough BP & 10' perf gun(3 1/8" slick guns). Tagged sand @ 4699'. Set plug @ 4698'. Perforated B.5 sands @ 4675- 85 ' (19g, 0.40HE, 38.87" pen.). 4 SPF for a total of 40 holes. RU BJ Services,1605 psi on well. Broke @ 4159 psi. Pumped 780 gals of 4% Techni-Hib solutions. Frac B.5 sands w/ 76,622#'s of 20/40 white sand in 599 bbls of Lightning 17# fluid. Ave treating pressure 2283 psi @ ave rate of 26.9 BPM. ISDP 2500 psi, 5 min 2274 psi, 10 min 2105 psi, 15 min 1930 psi. Leave pressure on well. - Stage #5 D2 sands. RU PSI WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flowthrough BP & 10' perf gun(3 1/8" slick guns). Set plug @ 4600'. Perforated D2 sands @ 4510- 20' (19g, 0.40HE, 38.87" pen.). 4 SPF for a total of 40 holes. RU BJ Services,1656 psi on well. Pumped 1.3 bbls to breakdown well, NO 1 MIN OR 4 MIN DUE TO PRESSURE DROP. Pumped 780 gals of 4% Techni-Hib solutions. Frac D2 sands w/ 52,961#'s of 20/40 white sand in 453 bbls of Lightning 17# fluid. Ave treating pressure 1950 psi @ ave rate of 26.9 BPM. ISDP 2056 psi, 5 min 1810 psi, 10 min 1695 psi, 15 min 1641 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed for 8 hrs & died. Rec 1052 BTF. SIWFN w/ 1461 BWTR.
Daily Cost: $0

4/27/2009 Day: 3 **Completion**

Western #3 on 4/27/2009 - (4-27-09) MIRU WWS #3. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" bit. Drill out plugs. SIWFN w/ 1383 BWTR. - (4-27-09) MIRU WWS #3. 300 psi on well. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" bit, bit sub & 30 jts of 2 7/8" J-55 tbg. Well started flowing. NU Washington rubber. Pumped 10 bbls of wtr down tbg. Continue PU tbg. Tagged plug @ 4600'. RU Nabors power swivel. Circulate sand & drill out plugs as follows: Plug @ 4600', No sand, Drilled out in 26 mins. Plug @ 4698',No sand, Drilled out in 30 mins. Tagged sand 4847', Plug @ 4870', Drilled out in 32 mins. Tagged sand @ 5375', Plug @ 5420', Drilled out in 15 mins. Circulate well clean w/ EOT @ 5450'. SIWFN w/1383
Daily Cost: $0

4/28/2009 Day: 4 **Completion**

Western #3 on 4/28/2009 - (4-28-09) C/O to PBTD. Swab, Round trip production tbg. Set TA. Land tbg on flange. PU & RIH w/ rods. SIWFN w/ 1273 BWTR. - (4-28-09) 100 psi on tbg, 150 psi on csg. Bleed off pressure. PU & RIH w/ tbg. Tagged fill @ 5661'. C/O to PBTD @ 5765'. Circulate well clean. LD 2 jts of tbg. EOT @ 5702'. RU swab equipment. IFL @ surface. Made 10 swab runs, Rec 160 BTF, FFL @ 800', Trace oil, No sand. RD swab equipment. TIH w/ 2 jts of tbg to 5765' (No new fill). Circulate well clean. LD extra tbg. TOH w/ tbg. LD bit & bit sub. PU & RIH w/ production tbg as follows: NC, 1- jt, SN, 1-jt, 5 1/2" TA, 178- jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 19,000#'s of tension @ 5579.79', EOT @ 5646.57'. NU WH. Flush tbg w/ 60 bbls of wtr. PU & prime up rod pump. PU & RIH w/ "A" grade rod string. Central hydraulic's 2 1/2" X 1 3/4" X 24' RHAC, 21,000# shear coupling, 4- 1 1/2" wt bars, 100- 7/8" guided rods (8 per). SIWFN w/ 1273 BWTR.
Daily Cost: $0

4/29/2009 Day: 5 **Completion**

Western #3 on 4/29/2009 - (4-29-09) Finish PU rods. Hang head & space out rods. RDMOSU. POP @ 10:00AM @ 5 SPM w/ 144" SL. 1273 BWTR. FINAL REPORT!!! - (4-29-09) 100 psi on csg, 75 psi on tbg. Bleed off pressure. Continue to PU rods. Total rod detail as follows: Central hydraulic 2 1/2" X 1 3/4" X 24' RHAC, 21,000# shear coupling, 4- 1 1/2" wt bars, 220- 7/8" guided rods (8 per), 1-6', 1-2' X 7/8" pony rods, 1 1/2" X 30' polish rod. Hang head, Space out rods. Pressure test w/ unit to 800 psi. RDMO. POP @ 10:00 AM @ 5 SPM w/ 144" SL. 1273 BWTR. FINAL REPORT!!! **Finalized**
Daily Cost: $0

Pertinent Files: Go to File List

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
ML-3453-B

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name
NA

7. Unit or CA Agreement Name and No.
BELUGA

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.
BELUGA STATE Q-16-9-17

3. Address
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. *(include area code)*
(435)646-3721

9. AFI Well No.
43-013-34148

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface 1987' FSL & 1971' FEL (NE/SW) SEC. 16, T9S, R17E

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area
SEC. 16, T9S, R17E

At top prod. interval reported below BHL: 1290' FSL & 1300' FWL (NE/SW)

12. County or Parish
DUCHESNE

13. State
UT

At total depth 5825' 1189 fsl 1188 fwl

14. Date Spudded
03/26/2009

15. Date T.D. Reached
04/11/2009

16. Date Completed 04/29/2009
☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5291' GL 5303' KB

18. Total Depth: MD 5825'
TVD 5699'

19. Plug Back T.D.: MD 5765'
TVD 5640

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. DENSITY,COMP. NEUTRON,GR,CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		336'		159 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		5820'		242 PRIMLITE		120'	
						404 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5647'	TA @ 5580'						

25. Producing Intervals

26. Perforation Record 4510

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP5) 5598-5604'	.49"	4	24
B) GREEN RIVER			(CP1) 5338-5346'	.49"	4	32
C) GREEN RIVER			(B2) 4771-75,4743-51'	.49"	4	48
D) GREEN RIVER			(B.5) 4675-4685'	.49"	4	40

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5598-5604'	Frac w/ 20317# of 20/40 snd 340 bbls fluid
5338-5346'	Frac w/ 30477# 20/40 snd 408 bbls fluid
4743-4775'	Frac w/ 70580# 20/40 snd 574 bbls fluid
4675-4685'	Frac w/ 76622# 20/40 snd 559 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/29/09	05/15/09	24	→	180	0	0			2-1/2" x 1-3/4" x 24' RHAC Pump

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GARDEN GULCH MRK	3441'
				GARDEN GULCH 1	3644'
				GARDEN GULCH 2	3756'
				POINT 3	4014'
				X MRKR	4269'
				Y MRKR	4303'
				DOUGALS CREEK MRK	4430'
				BI CARBONATE MRK	4661'
				B LIMESTON MRK	4787'
				CASTLE PEAK	5278'
				BASAL CARBONATE	5708'
				TOTAL DEPTH (LOGGERS)	5812'

32. Additional remarks (include plugging procedure):

(D2) 4510-4520' .49" 4/40 4510-4520' Frac w/ 52961#'s of 20/40 sand in 453 bbls of fluid

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Tammi Lee Title Production Clerk

Signature Tammi Lee Date 06/23/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

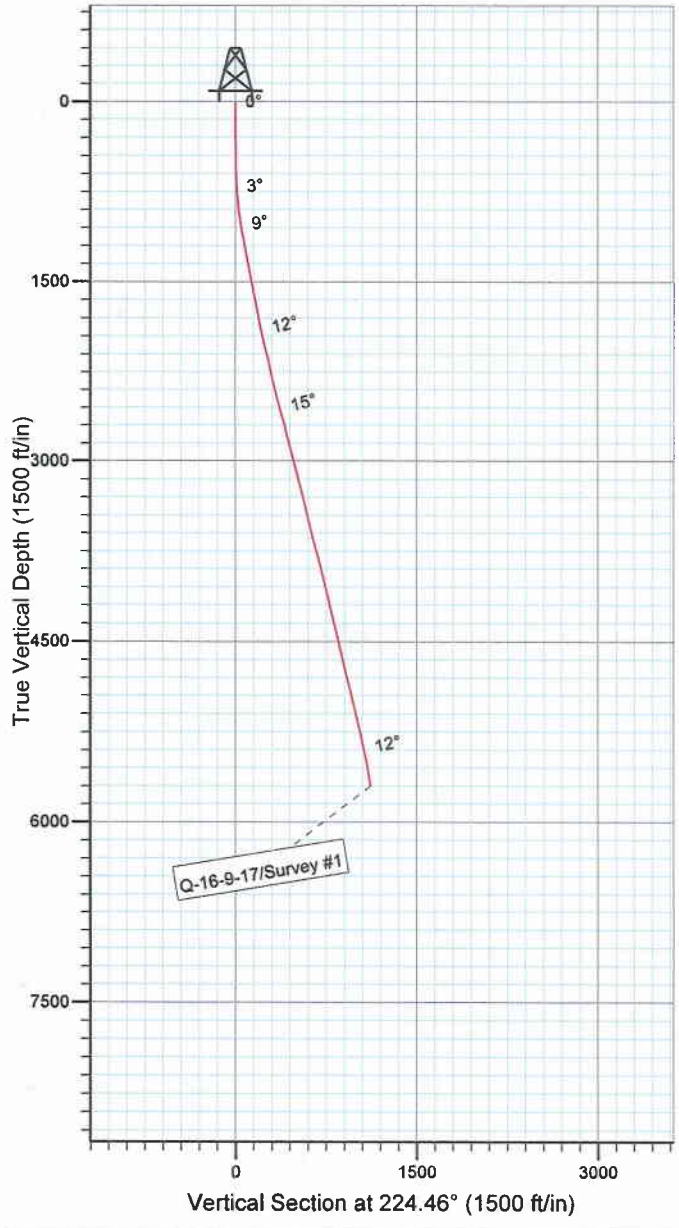
NEWFIELD

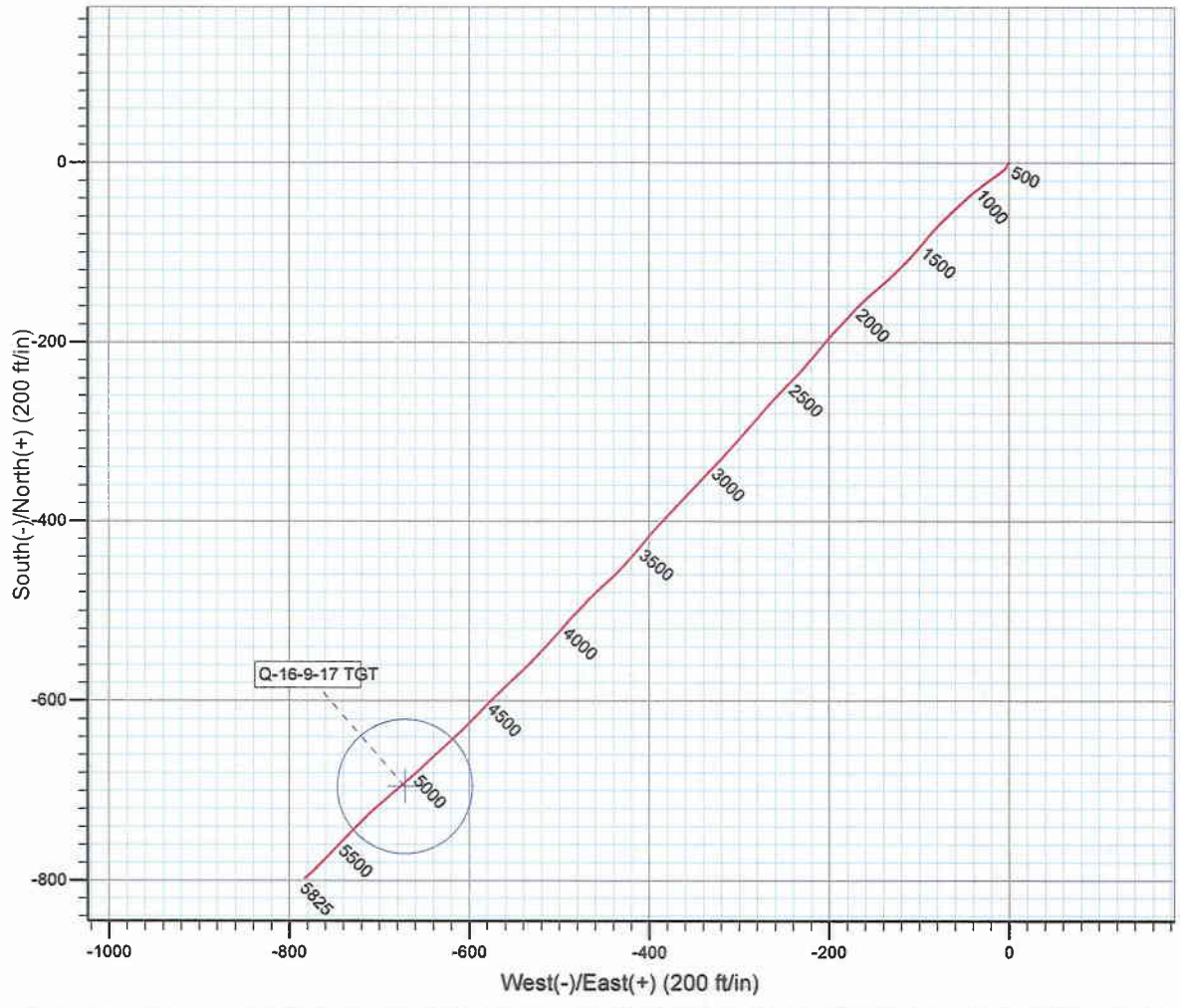
Project: USGS Myton SW (UT)
Site: SECTION 16 T9S, R17E
Well: Q-16-9-17
Wellbore: Wellbore #1
SURVEY: Wellbore #1

FINAL SURVEY REPORT

Azimuths to True North
Magnetic North: 11.57°

Magnetic Field
Strength: 52521.7snT
Dip Angle: 65.86°
Date: 2009/03/13
Model: IGRF200510





HATHAWAY HB BURNHAM
DIRECTIONAL & MWD SERVICES

Survey: Survey #1 (Q-16-9-17/Wellbore #1)

Created By: Jim hudson Date: 8:40, April 13 2009

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

NEWFIELD

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 16 T9S, R17E
Q-16-9-17

Wellbore #1

Survey: Survey #1

Standard Survey Report

13 April, 2009

HATHAWAY HB BURNHAM
DIRECTIONAL & MWD SERVICES

NEWFIELD

HATHAWAY BURNHAM
Survey Report

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well Q-16-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Site:	SECTION 16 T9S, R17E	**MD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Well:	Q-16-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	SECTION 16 T9S, R17E, SEC 16 T9S, R17E				
Site Position:		**Northing:**	7,183,439.74 ft	**Latitude:**	40° 1' 51.237 N
From:	Lat/Long	**Easting:**	2,056,769.95 ft	**Longitude:**	110° 0' 46.831 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.95 °

Well	Q-16-9-17, SHL LAT: 40 01 44.97, LONG: -110 00 50.35					
Well Position	**+N/-S**	0.0 ft	**Northing:**	7,182,801.16 ft	**Latitude:**	40° 1' 44.970 N
	+E/-W	0.0 ft	**Easting:**	2,056,506.79 ft	**Longitude:**	110° 0' 50.350 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	0.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/03/13	11.57	65.86	52,522

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	224.46

Survey Program **Date** 2009/04/13

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
389.0	5,825.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
389.0	0.55	229.17	389.0	-1.2	-1.4	1.9	0.14	0.14	0.00
420.0	0.62	241.23	420.0	-1.4	-1.7	2.2	0.46	0.23	38.90
451.0	0.68	229.56	451.0	-1.6	-2.0	2.5	0.47	0.19	-37.65
482.0	0.70	216.59	482.0	-1.9	-2.2	2.9	0.51	0.06	-41.84
512.0	0.92	198.30	512.0	-2.2	-2.4	3.3	1.12	0.73	-60.97
543.0	1.45	189.92	543.0	-2.9	-2.5	3.8	1.79	1.71	-27.03
574.0	1.87	194.45	574.0	-3.7	-2.7	4.6	1.42	1.35	14.61
605.0	2.01	206.37	604.9	-4.7	-3.1	5.5	1.37	0.45	38.45
635.0	2.40	216.50	634.9	-5.7	-3.7	6.7	1.83	1.30	33.77
667.0	2.86	222.44	666.9	-6.8	-4.6	8.1	1.67	1.44	18.56
697.0	3.30	231.49	696.8	-7.9	-5.8	9.7	2.18	1.47	30.17
727.0	3.43	233.01	726.8	-9.0	-7.2	11.5	0.53	0.43	5.07

NEWFIELD

HATHAWAY BURNHAM

Survey Report

HATHAWAY BURNHAM DIRECTIONAL & MWD SERVICES

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well Q-16-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Site:	SECTION 16 T9S, R17E	**MD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Well:	Q-16-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
758.0	4.11	233.80	757.7	-10.2	-8.9	13.5	2.20	2.19	2.55
789.0	4.75	232.81	788.6	-11.6	-10.8	15.9	2.08	2.06	-3.19
819.0	5.05	235.00	818.5	-13.1	-12.8	18.4	1.18	1.00	7.30
850.0	5.67	233.89	849.4	-14.8	-15.2	21.2	2.03	2.00	-3.58
881.0	6.34	234.79	880.2	-16.7	-17.8	24.4	2.18	2.16	2.90
913.0	6.72	234.46	912.0	-18.8	-20.8	28.0	1.19	1.19	-1.03
945.0	7.56	234.46	943.8	-21.1	-24.0	31.9	2.63	2.63	0.00
976.0	8.35	230.81	974.5	-23.7	-27.4	36.2	3.02	2.55	-11.77
1,008.0	9.12	231.03	1,006.1	-26.8	-31.2	41.0	2.41	2.41	0.69
1,040.0	9.32	230.64	1,037.7	-30.1	-35.2	46.1	0.65	0.63	-1.22
1,071.0	9.47	229.34	1,068.3	-33.3	-39.1	51.1	0.84	0.48	-4.19
1,103.0	9.65	229.17	1,099.8	-36.8	-43.1	56.4	0.57	0.56	-0.53
1,135.0	9.98	227.69	1,131.4	-40.4	-47.2	61.9	1.30	1.03	-4.63
1,167.0	10.11	227.39	1,162.9	-44.2	-51.3	67.4	0.44	0.41	-0.94
1,198.0	10.31	227.93	1,193.4	-47.9	-55.4	72.9	0.72	0.65	1.74
1,230.0	10.52	228.26	1,224.8	-51.7	-59.7	78.7	0.68	0.66	1.03
1,261.0	10.99	227.74	1,255.3	-55.6	-64.0	84.5	1.55	1.52	-1.68
1,293.0	11.32	226.24	1,286.7	-59.8	-68.5	90.7	1.37	1.03	-4.69
1,324.0	11.65	225.23	1,317.1	-64.1	-72.9	96.8	1.25	1.06	-3.26
1,356.0	11.71	223.83	1,348.4	-68.7	-77.4	103.3	0.91	0.19	-4.38
1,388.0	11.84	222.07	1,379.7	-73.5	-81.9	109.8	1.19	0.41	-5.50
1,419.0	11.84	220.88	1,410.1	-78.3	-86.1	116.2	0.79	0.00	-3.84
1,451.0	11.51	218.64	1,441.4	-83.3	-90.3	122.6	1.75	-1.03	-7.00
1,482.0	11.07	219.01	1,471.8	-88.0	-94.1	128.7	1.44	-1.42	1.19
1,515.0	10.70	220.22	1,504.2	-92.8	-98.0	134.9	1.32	-1.12	3.67
1,546.0	10.63	221.19	1,534.7	-97.1	-101.8	140.6	0.62	-0.23	3.13
1,577.0	10.59	223.07	1,565.2	-101.4	-105.6	146.3	1.12	-0.13	6.06
1,609.0	10.28	222.27	1,596.6	-105.6	-109.5	152.1	1.07	-0.97	-2.50
1,641.0	10.13	222.82	1,628.1	-109.8	-113.4	157.8	0.56	-0.47	1.72
1,673.0	10.61	223.76	1,659.6	-114.0	-117.3	163.5	1.59	1.50	2.94
1,767.0	10.85	227.01	1,752.0	-126.3	-129.8	181.0	0.69	0.26	3.46
1,862.0	11.78	229.65	1,845.1	-138.7	-143.7	199.6	1.12	0.98	2.78
1,958.0	12.99	228.07	1,938.9	-152.2	-159.2	220.1	1.31	1.26	-1.65
2,053.0	13.34	221.89	2,031.4	-167.5	-174.5	241.8	1.53	0.37	-6.51
2,148.0	14.17	224.03	2,123.7	-184.0	-189.9	264.3	1.02	0.87	2.25
2,242.0	12.72	219.00	2,215.1	-200.4	-204.4	286.1	1.98	-1.54	-5.35
2,337.0	12.59	219.40	2,307.8	-216.5	-217.5	306.9	0.17	-0.14	0.42
2,433.0	12.61	222.88	2,401.5	-232.2	-231.3	327.8	0.79	0.02	3.63
2,528.0	14.52	223.61	2,493.8	-248.5	-246.6	350.0	2.02	2.01	0.77
2,622.0	15.77	222.71	2,584.5	-266.4	-263.4	374.6	1.35	1.33	-0.96
2,717.0	14.46	219.98	2,676.3	-285.0	-279.7	399.3	1.57	-1.38	-2.87
2,812.0	14.37	220.02	2,768.3	-303.1	-294.9	422.9	0.10	-0.09	0.04
2,907.0	14.08	222.35	2,860.4	-320.6	-310.3	446.2	0.68	-0.31	2.45
3,003.0	14.81	225.76	2,953.3	-337.8	-327.0	470.1	1.17	0.76	3.55
3,097.0	14.24	221.23	3,044.3	-354.9	-343.2	493.7	1.35	-0.61	-4.82
3,192.0	14.70	223.83	3,136.3	-372.4	-359.2	517.4	0.84	0.48	2.74
3,287.0	14.70	223.61	3,228.2	-389.8	-375.9	541.5	0.06	0.00	-0.23
3,382.0	14.17	221.63	3,320.2	-407.2	-391.9	565.2	0.76	-0.56	-2.08
3,477.0	13.07	219.43	3,412.5	-424.2	-406.5	587.5	1.28	-1.16	-2.32
3,573.0	12.70	220.18	3,506.1	-440.7	-420.2	608.8	0.42	-0.39	0.78
3,668.0	13.51	224.98	3,598.6	-456.5	-434.8	630.3	1.43	0.85	5.05
3,763.0	15.31	227.14	3,690.6	-472.9	-451.8	654.0	1.98	1.89	2.27
3,858.0	14.59	225.19	3,782.4	-489.8	-469.5	678.5	0.92	-0.76	-2.05
3,953.0	13.78	222.35	3,874.5	-506.6	-485.6	701.7	1.12	-0.85	-2.99

NEWFIELD

HATHAWAY BURNHAM

Survey Report

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well Q-16-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Site:	SECTION 16 T9S, R17E	**MD Reference:**	Q-16-9-17 @ 5303.0ft (RIG #2)
Well:	Q-16-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,048.0	13.54	221.54	3,966.8	-523.3	-500.6	724.1	0.32	-0.25	-0.85
4,144.0	13.34	222.71	4,060.2	-539.9	-515.6	746.4	0.35	-0.21	1.22
4,239.0	13.58	224.99	4,152.6	-555.8	-530.9	768.5	0.61	0.25	2.40
4,335.0	14.08	226.26	4,245.8	-571.9	-547.3	791.5	0.61	0.52	1.32
4,429.0	13.56	225.08	4,337.1	-587.6	-563.3	813.9	0.63	-0.55	-1.26
4,524.0	13.54	225.63	4,429.5	-603.2	-579.2	836.2	0.14	-0.02	0.58
4,620.0	13.23	223.87	4,522.8	-619.0	-594.8	858.4	0.53	-0.32	-1.83
4,714.0	12.85	225.56	4,614.4	-634.0	-609.7	879.6	0.57	-0.40	1.80
4,809.0	13.12	228.07	4,707.0	-648.6	-625.3	900.9	0.66	0.28	2.64
4,904.0	13.51	226.73	4,799.4	-663.5	-641.4	922.8	0.52	0.41	-1.41
4,999.0	13.95	226.60	4,891.7	-678.9	-657.8	945.3	0.46	0.46	-0.14
5,094.0	13.58	230.37	4,984.0	-693.9	-674.7	967.9	1.02	-0.39	3.97
5,109.2	13.57	230.26	4,998.8	-696.2	-677.5	971.4	0.20	-0.10	-0.73
Q-16-9-17 TGT									
5,189.0	13.49	229.67	5,076.4	-708.2	-691.8	990.0	0.20	-0.09	-0.74
5,284.0	13.27	227.34	5,168.8	-722.8	-708.2	1,011.9	0.61	-0.23	-2.45
5,379.0	13.18	223.89	5,261.3	-738.0	-723.8	1,033.6	0.84	-0.09	-3.63
5,474.0	12.02	223.91	5,354.0	-752.9	-738.1	1,054.4	1.22	-1.22	0.02
5,570.0	11.05	223.17	5,448.0	-766.8	-751.4	1,073.5	1.02	-1.01	-0.77
5,665.0	10.42	224.73	5,541.4	-779.5	-763.6	1,091.2	0.73	-0.66	1.64
5,760.0	9.60	227.03	5,634.9	-791.0	-775.5	1,107.7	0.96	-0.86	2.42
5,816.0	9.60	227.03	5,690.1	-797.4	-782.3	1,117.1	0.00	0.00	0.00
5,825.0	9.60	227.03	5,699.0	-798.4	-783.4	1,118.6	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

H HEADER INFORMATION ----------
H COMPANY : NEWFIELD EXPLORATION
H FIELD : USGS Myton SW (UT)
H SITE : SECTION 16 T9S, R17E
H WELL : Q-16-9-17
H WELLPATH: Wellbore #1
H DEPTHUNT: ft
H SURVDATE: 4/13/2009
H DECLINATION CORR.
H = 10.61 TO GRIDH----------
H WELL INFORMATION
H WELL EW MAP : 2056507
H WELL NS MAP : 7182801
H DATUM ELEVN : 5303
H VSECT ANGLE : 224.46
H VSECT NORTH : 0
H VSECT EAST : 0
H----------
H SURVEY TYPE INFORMATION
H 389 - 5825 SURVEY #1 : MWD
H----------
H SURVEY LIST

MD	INC	AZI	TVD	NS	EW	VS	DLS
0	0	0	0	0	0	0	0
389	0.55	229.17	388.99	-1.22	-1.41	1.86	0.14
420	0.62	241.23	419.99	-1.4	-1.67	2.17	0.46
451	0.68	229.56	450.99	-1.6	-1.96	2.51	0.47
482	0.7	216.59	481.99	-1.87	-2.21	2.88	0.51
512	0.92	198.3	511.99	-2.25	-2.4	3.28	1.12
543	1.45	189.92	542.98	-2.87	-2.54	3.83	1.79
574	1.87	194.45	573.97	-3.74	-2.74	4.59	1.42
605	2.01	206.37	604.95	-4.72	-3.1	5.54	1.37
635	2.4	216.5	634.93	-5.7	-3.71	6.67	1.83
667	2.86	222.44	666.89	-6.83	-4.65	8.13	1.67
697	3.3	231.49	696.85	-7.92	-5.83	9.73	2.18
727	3.43	233.01	726.8	-8.99	-7.22	11.48	0.53
758	4.11	233.8	757.73	-10.21	-8.86	13.49	2.2
789	4.75	232.81	788.64	-11.64	-10.78	15.86	2.08
819	5.05	235	818.53	-13.15	-12.85	18.38	1.18
850	5.67	233.89	849.39	-14.83	-15.2	21.24	2.03
881	6.34	234.79	880.22	-16.72	-17.84	24.43	2.18
913	6.72	234.46	912.01	-18.83	-20.81	28.01	1.19
945	7.56	234.46	943.77	-21.14	-24.04	31.93	2.63
976	8.35	230.81	974.47	-23.75	-27.45	36.17	3.02
1008	9.12	231.03	1006.1	-26.81	-31.22	41	2.41
1040	9.32	230.64	1037.68	-30.05	-35.2	46.1	0.65
1071	9.47	229.34	1068.27	-33.3	-39.07	51.14	0.84

1103	9.65	229.17	1099.82	-36.77	-43.1	56.43	0.57
1135	9.98	227.69	1131.35	-40.39	-47.18	61.87	1.3
1167	10.11	227.39	1162.86	-44.16	-51.29	67.45	0.44
1198	10.31	227.93	1193.37	-47.86	-55.36	72.93	0.72
1230	10.52	228.26	1224.84	-51.73	-59.66	78.71	0.68
1261	10.99	227.74	1255.3	-55.6	-63.96	84.48	1.55
1293	11.32	226.24	1286.7	-59.82	-68.49	90.66	1.37
1324	11.65	225.23	1317.07	-64.13	-72.91	96.83	1.25
1356	11.71	223.83	1348.41	-68.75	-77.45	103.31	0.91
1388	11.84	222.07	1379.74	-73.53	-81.9	109.84	1.19
1419	11.84	220.88	1410.08	-78.29	-86.11	116.19	0.79
1451	11.51	218.64	1441.42	-83.27	-90.25	122.64	1.75
1482	11.07	219.01	1471.82	-88	-94.06	128.68	1.44
1515	10.7	220.22	1504.22	-92.8	-98.03	134.89	1.32
1546	10.63	221.19	1534.69	-97.15	-101.77	140.62	0.62
1577	10.59	223.07	1565.16	-101.38	-105.6	146.32	1.12
1609	10.28	222.27	1596.63	-105.64	-109.53	152.11	1.07
1641	10.13	222.82	1628.12	-109.82	-113.36	157.78	0.56
1673	10.61	223.76	1659.6	-114.01	-117.31	163.54	1.59
1767	10.85	227.01	1751.96	-126.29	-129.77	181.03	0.69
1862	11.78	229.65	1845.11	-138.67	-143.7	199.62	1.12
1958	12.99	228.07	1938.88	-152.22	-159.19	220.15	1.31
2053	13.34	221.89	2031.38	-167.52	-174.46	241.75	1.53
2148	14.17	224.03	2123.66	-184.04	-189.86	264.33	1.02
2242	12.72	219	2215.08	-200.35	-204.37	286.14	1.98
2337	12.59	219.4	2307.77	-216.48	-217.52	306.86	0.17
2433	12.61	222.88	2401.46	-232.24	-231.29	327.76	0.79
2528	14.52	223.61	2493.81	-248.47	-246.56	350.04	2.02
2622	15.77	222.71	2584.54	-266.39	-263.36	374.59	1.35
2717	14.46	219.98	2676.26	-284.96	-279.73	399.32	1.57
2812	14.37	220.02	2768.27	-303.08	-294.94	422.9	0.1
2907	14.08	222.35	2860.35	-320.65	-310.3	446.2	0.68
3003	14.81	225.76	2953.32	-337.84	-326.96	470.13	1.17
3097	14.24	221.23	3044.32	-354.91	-343.19	493.69	1.35
3192	14.7	223.83	3136.3	-372.4	-359.24	517.41	0.84
3287	14.7	223.61	3228.2	-389.82	-375.9	541.51	0.06
3382	14.17	221.63	3320.2	-407.24	-391.94	565.18	0.76
3477	13.07	219.43	3412.52	-424.23	-406.48	587.49	1.28
3573	12.7	220.18	3506.11	-440.67	-420.19	608.83	0.42
3668	13.51	224.98	3598.63	-456.5	-434.77	630.34	1.43
3763	15.31	227.14	3690.64	-472.88	-451.81	653.97	1.98
3858	14.59	225.19	3782.43	-489.85	-469.49	678.46	0.92
3953	13.78	222.35	3874.53	-506.64	-485.6	701.73	1.12
4048	13.54	221.54	3966.84	-523.33	-500.6	724.15	0.32
4144	13.34	222.71	4060.21	-539.88	-515.56	746.44	0.35
4239	13.58	224.99	4152.61	-555.82	-530.88	768.55	0.61
4335	14.08	226.26	4245.82	-571.86	-547.29	791.49	0.61

4429	13.56	225.08	4337.1	-587.55	-563.35	813.94	0.63
4524	13.54	225.63	4429.46	-603.19	-579.18	836.19	0.14
4620	13.23	223.87	4522.85	-618.97	-594.83	858.41	0.53
4714	12.85	225.56	4614.43	-634.04	-609.75	879.62	0.57
4809	13.12	228.07	4707	-648.64	-625.31	900.94	0.66
4904	13.51	226.73	4799.44	-663.46	-641.41	922.79	0.52
4999	13.95	226.6	4891.73	-678.93	-657.81	945.32	0.46
5094	13.58	230.37	4984	-693.91	-674.73	967.86	1.02
5189	13.49	229.67	5076.36	-708.2	-691.76	989.99	0.2
5284	13.27	227.34	5168.79	-722.76	-708.23	1011.91	0.61
5379	13.18	223.89	5261.27	-737.95	-723.75	1033.63	0.84
5474	12.02	223.91	5353.98	-752.88	-738.12	1054.35	1.22
5570	11.05	223.17	5448.04	-766.79	-751.35	1073.55	1.02
5665	10.42	224.73	5541.38	-779.54	-763.63	1091.24	0.73
5760	9.6	227.03	5634.93	-791.04	-775.47	1107.74	0.96
5816	9.6	227.03	5690.14	-797.41	-782.3	1117.07	0
5825	9.6	227.03	5699.02	-798.43	-783.4	1118.57	0

TVD MARKER
PRJ TO BIT